

Fig. 1a

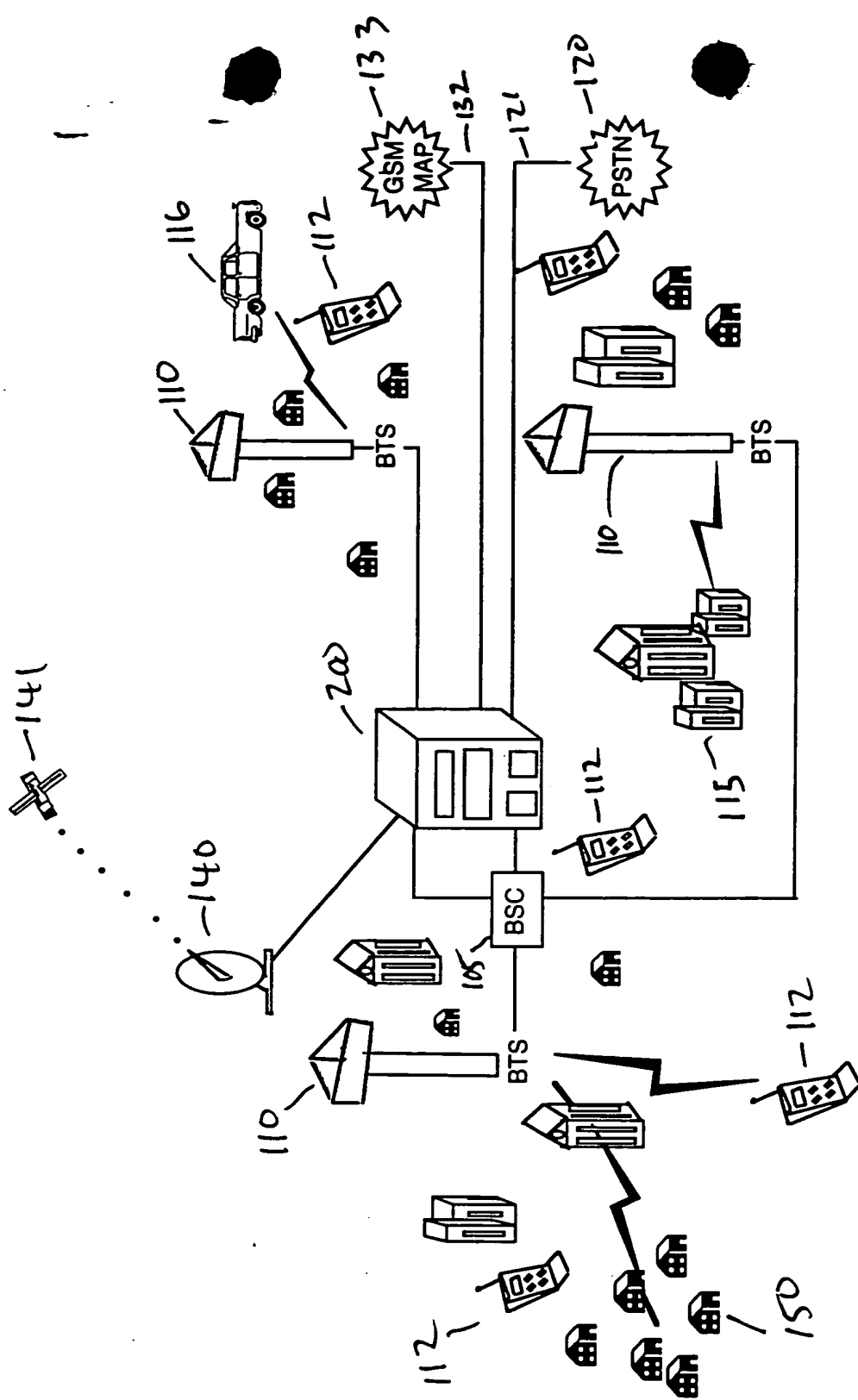


Fig. 1b

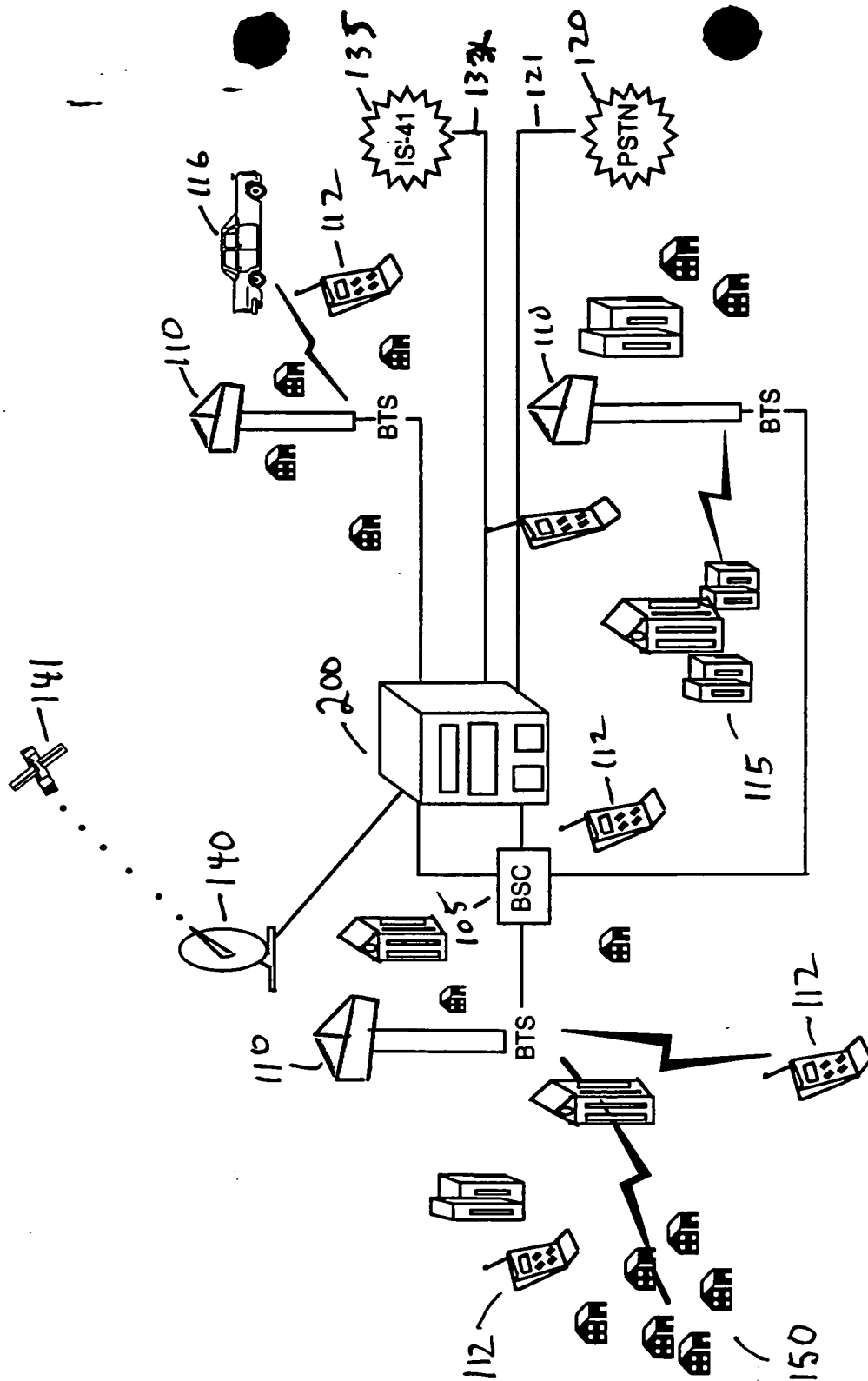


Fig. 1c

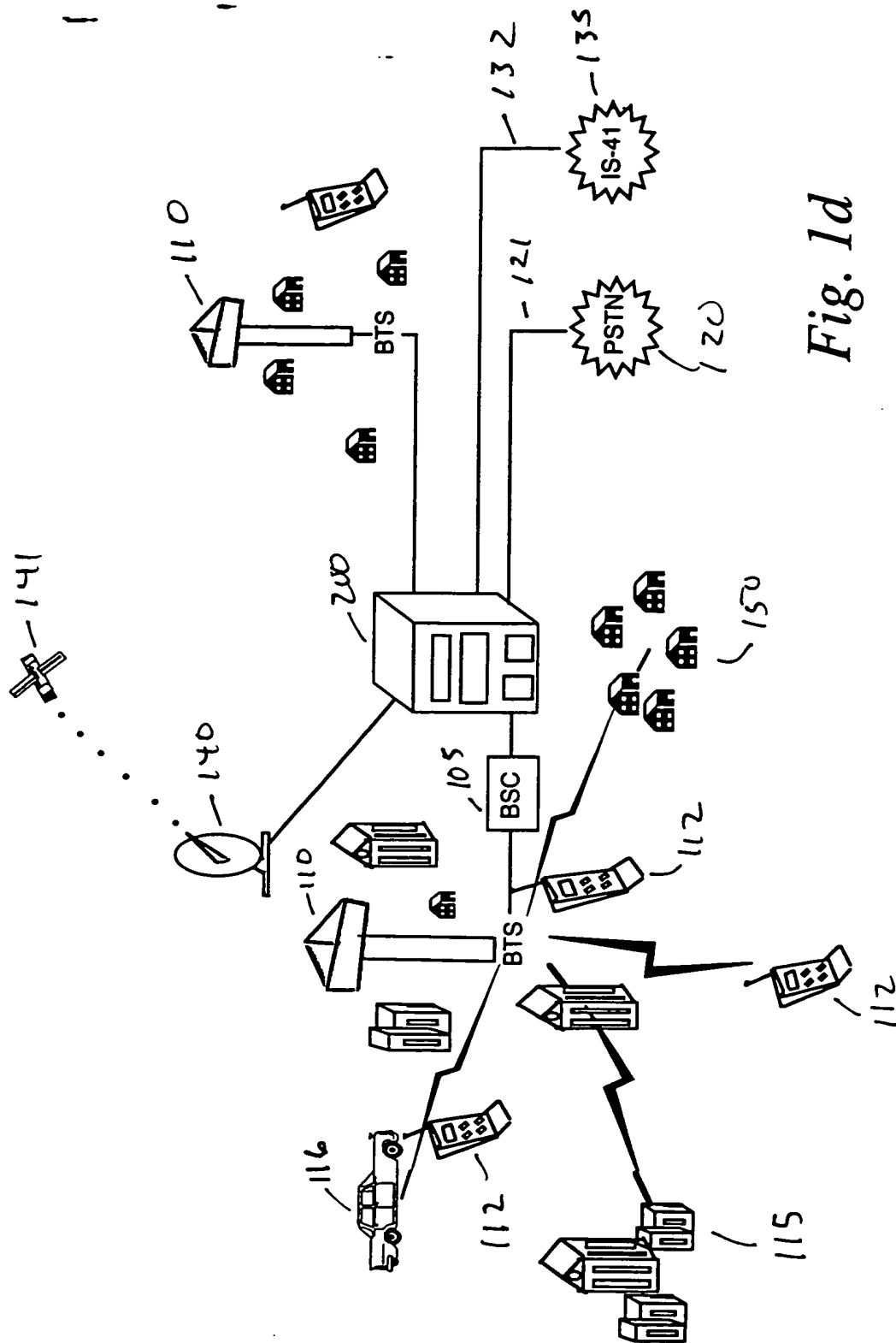


Fig. 1d

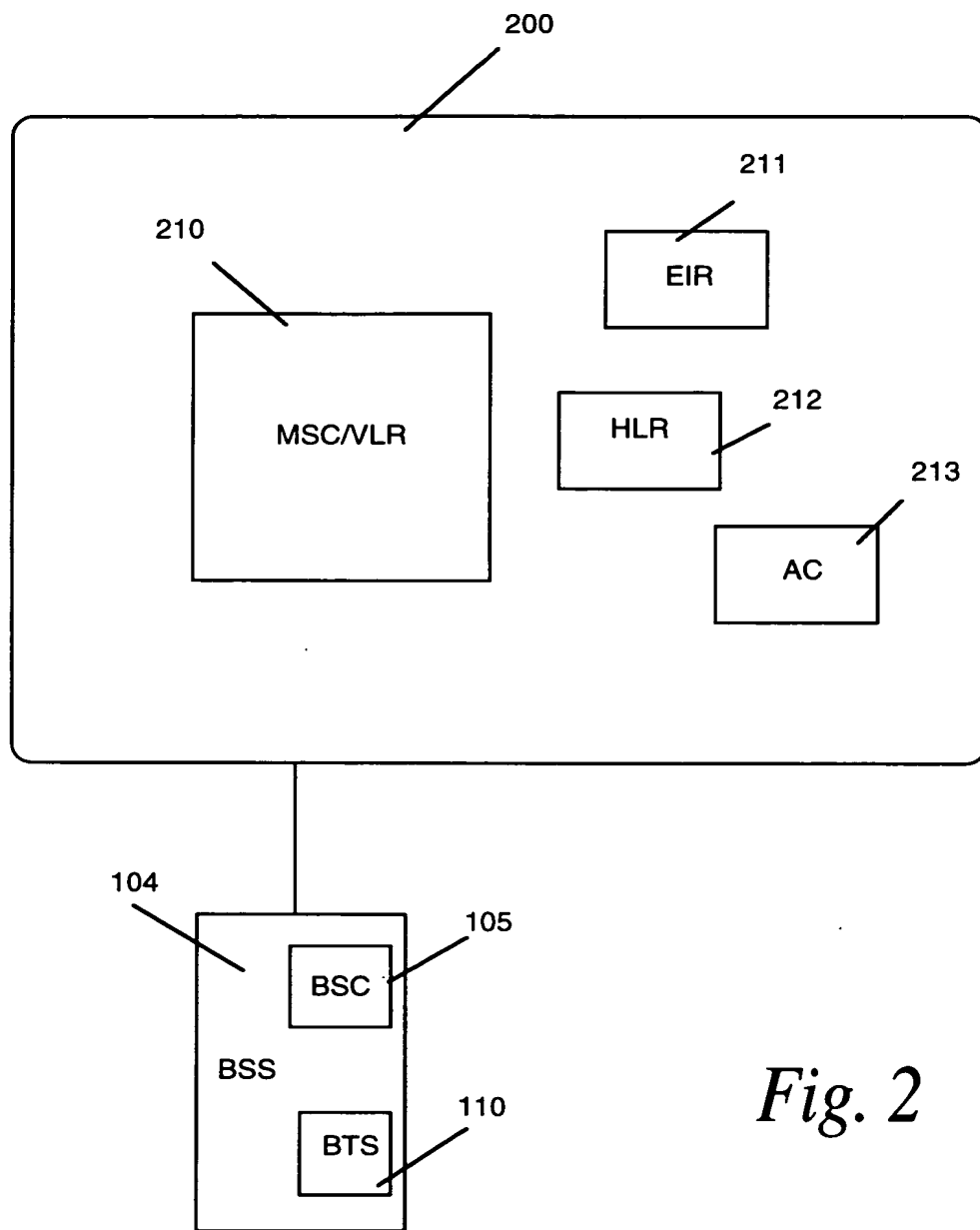


Fig. 2

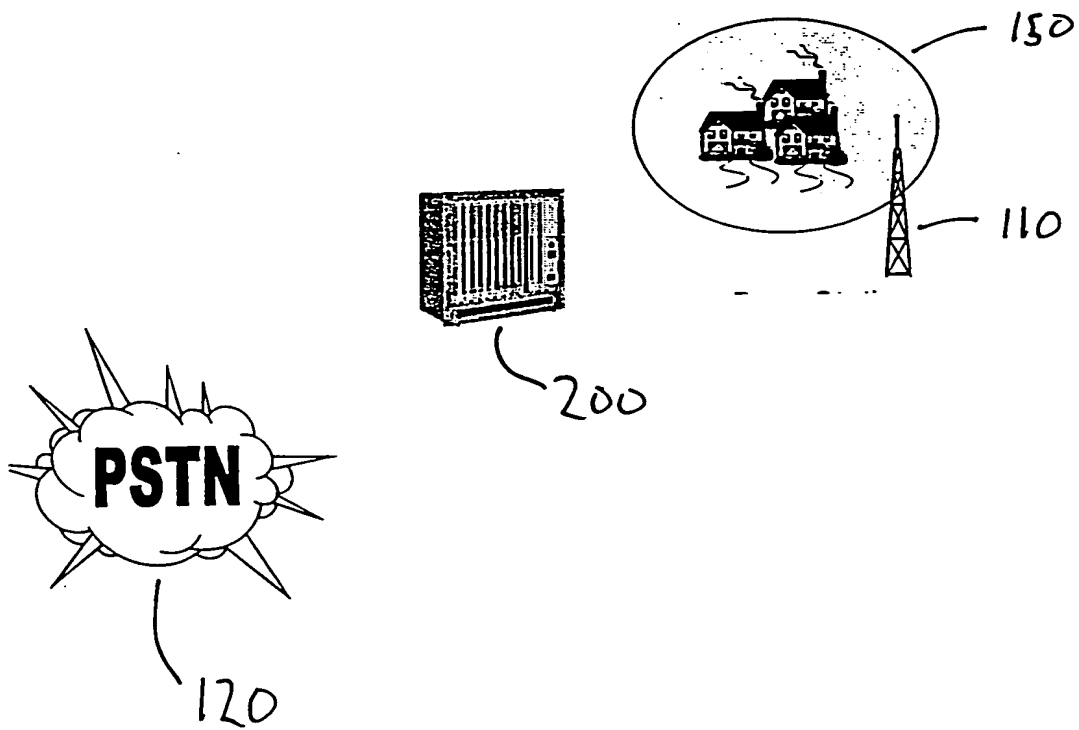


Fig. 3

09245292 020599
665020 2625260

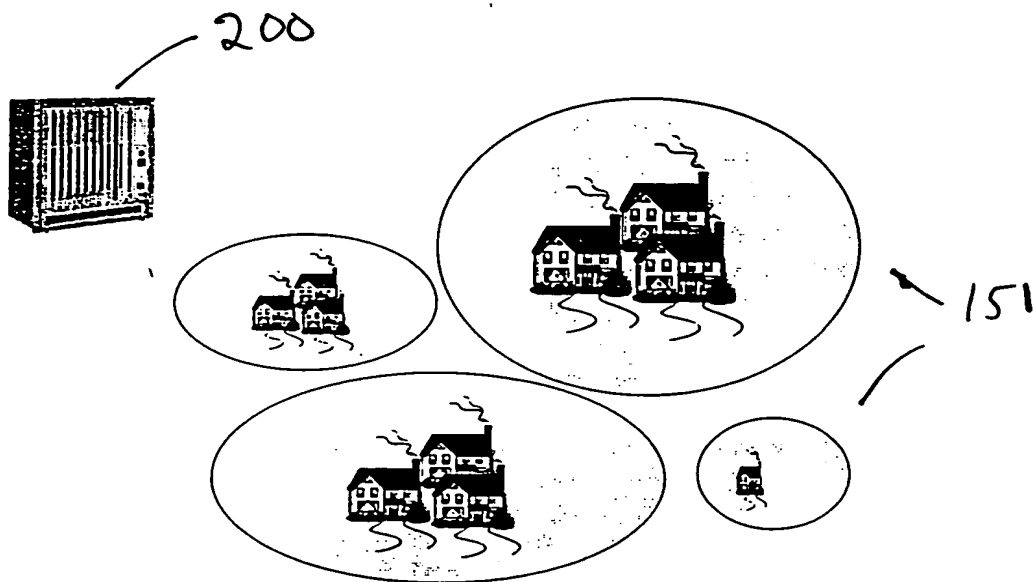


Fig. 4

09245293.1020599

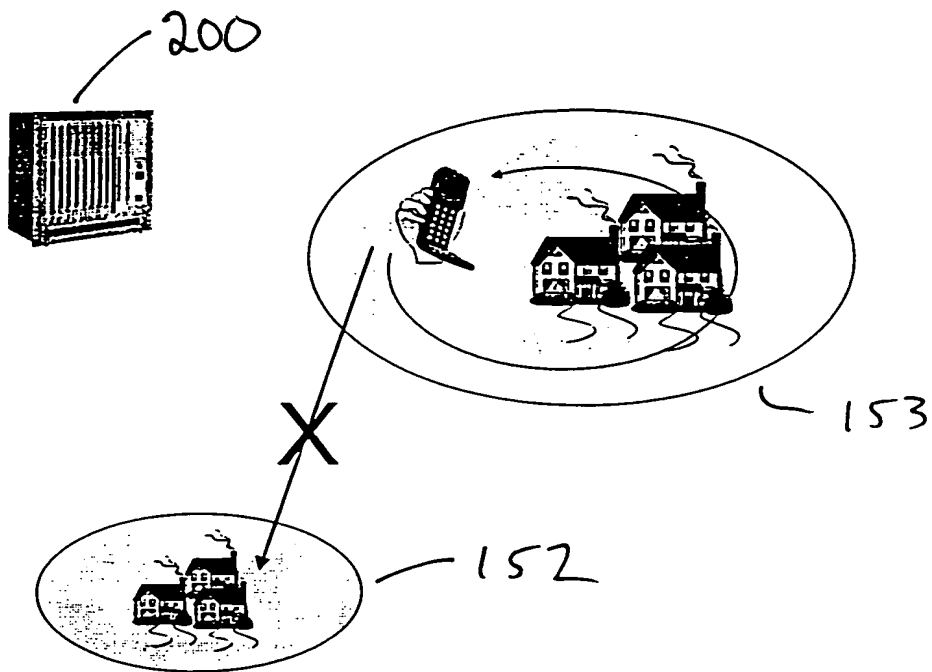


Fig. 5

09245292 020599

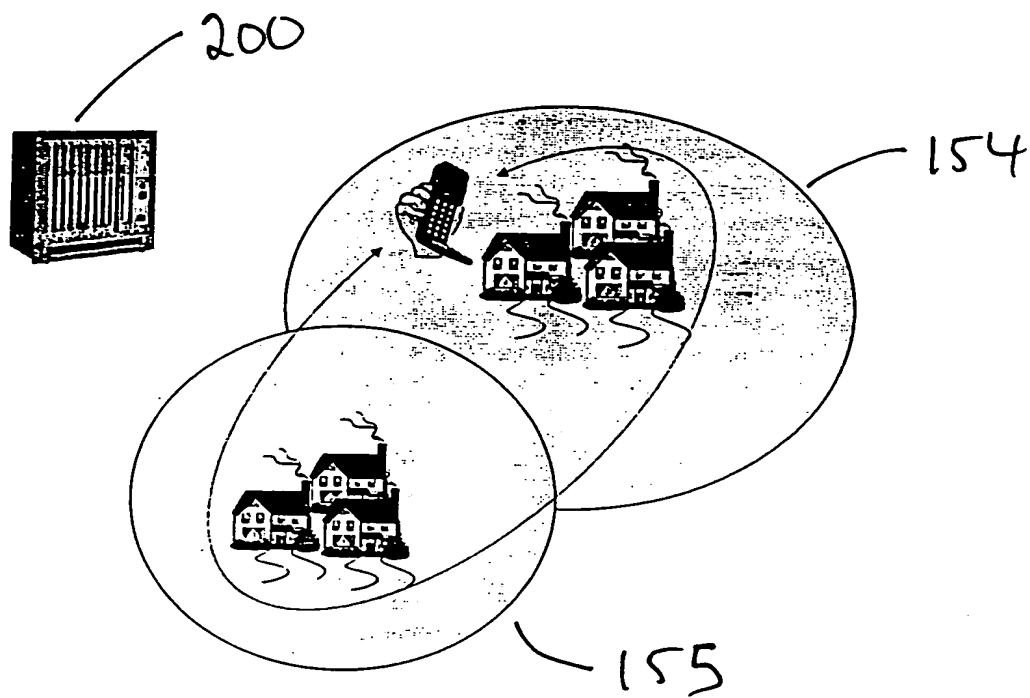


Fig. 6

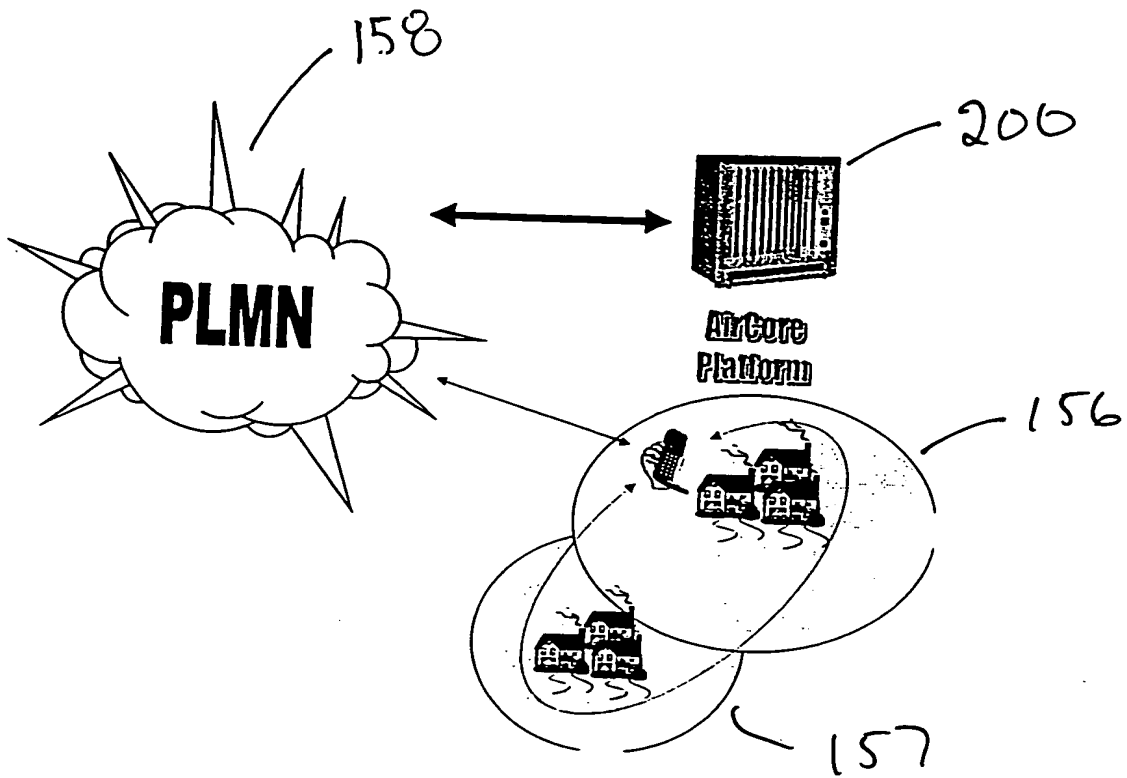


Fig. 7

09743600

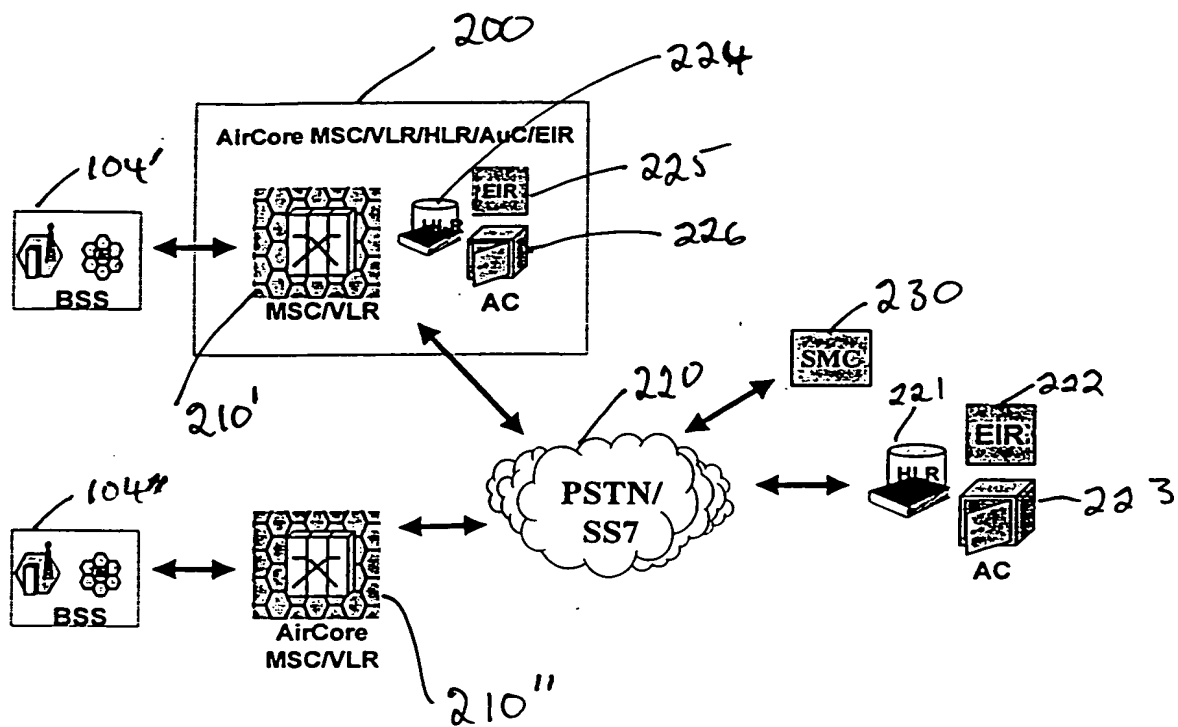


Fig. 8

09245292-020599

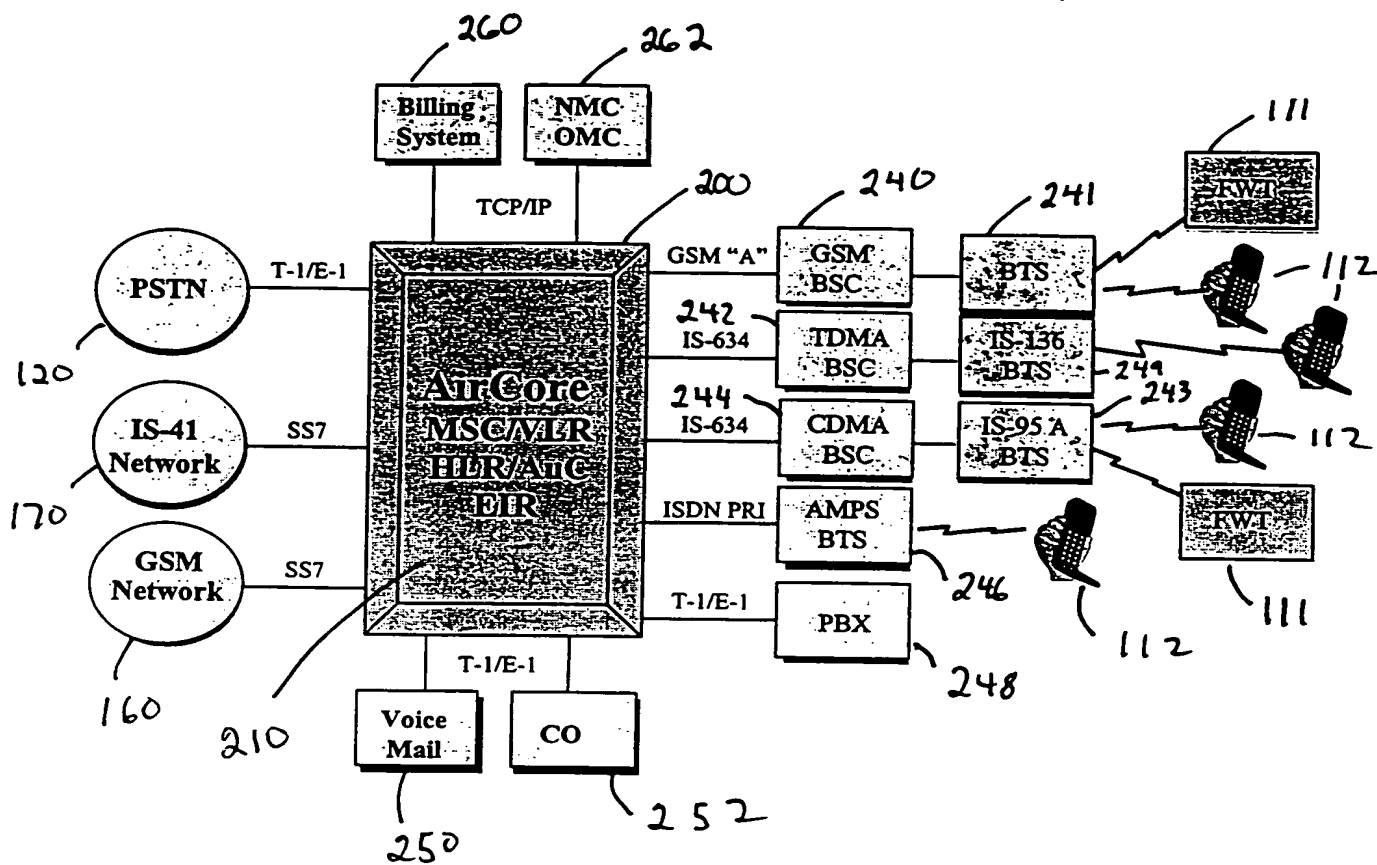
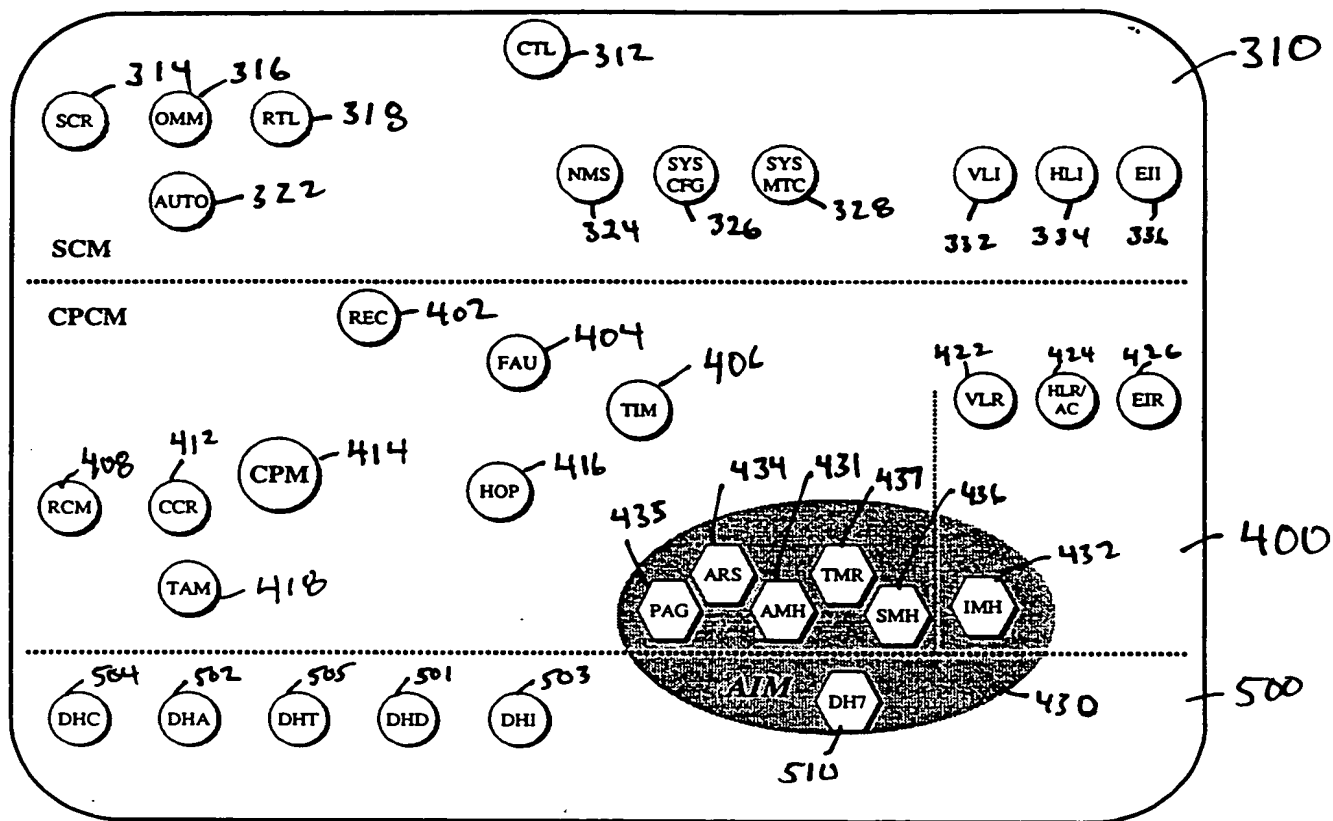


Fig. 9

004599 020599



300

FIG 10

The diagram illustrates a memory architecture. At the top center is a circular node labeled "AIM" with the number "438" next to it. Below this node is a horizontal bus line. Eight vertical rectangular nodes are connected to this bus. From left to right, these nodes are labeled as follows:

- Node 1: Labeled "510" on the left. Inside the rectangle, it contains "D H" and "7".
- Node 2: Labeled "431" above it. Inside, it contains "A M H" and "0034".
- Node 3: Labeled "431" above it. Inside, it contains "A M H" and "030".
- Node 4: Labeled "434" above it. Inside, it contains "A R S".
- Node 5: Labeled "435" above it. Inside, it contains "P A G".
- Node 6: Labeled "436" above it. Inside, it contains "S M H".
- Node 7: Labeled "422" above it. Inside, it contains "I M H" and "0000".
- Node 8: Labeled "422" above it. Inside, it contains "I M H" and "B-41 SAC".

 Below the bus and nodes is a large rectangular block labeled "Common Memory". To the right of this block is the number "439".

Fig. 11

09245292 020599

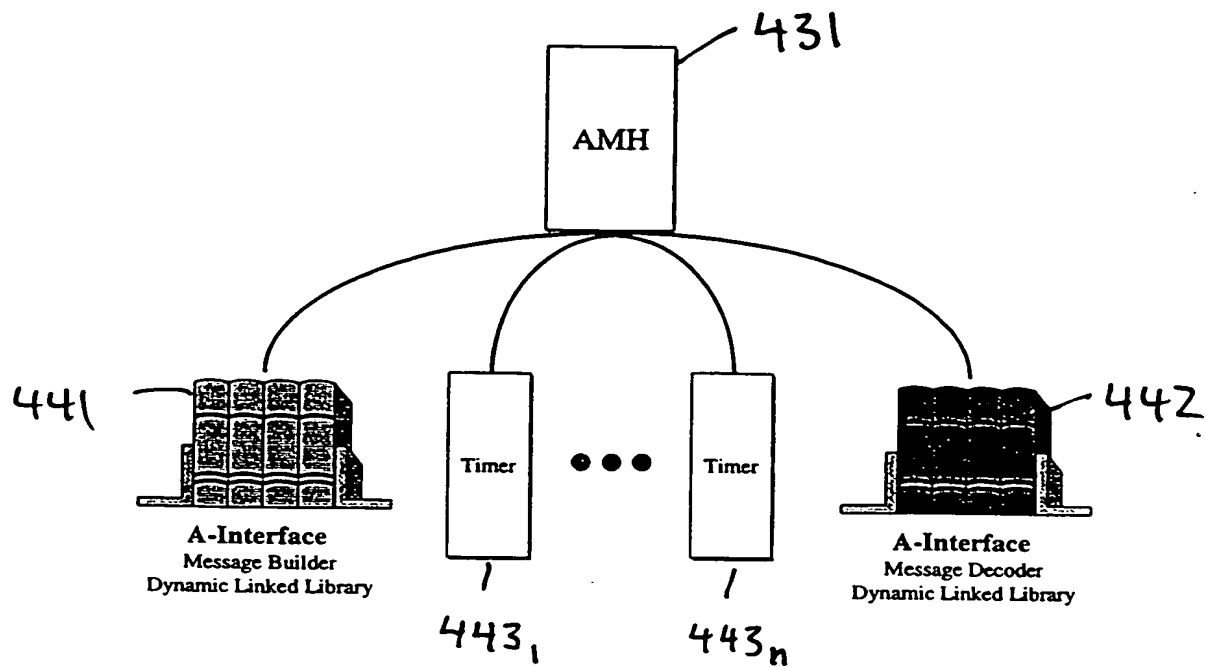


Fig. 12

09245292 020599
665020 26254260

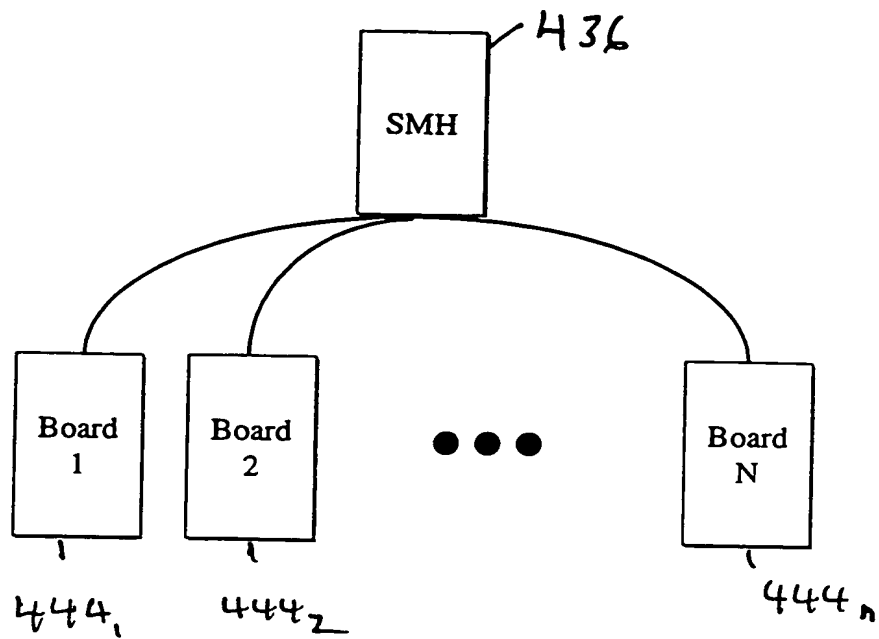


Fig. 13

024529 020599
665020 26254260

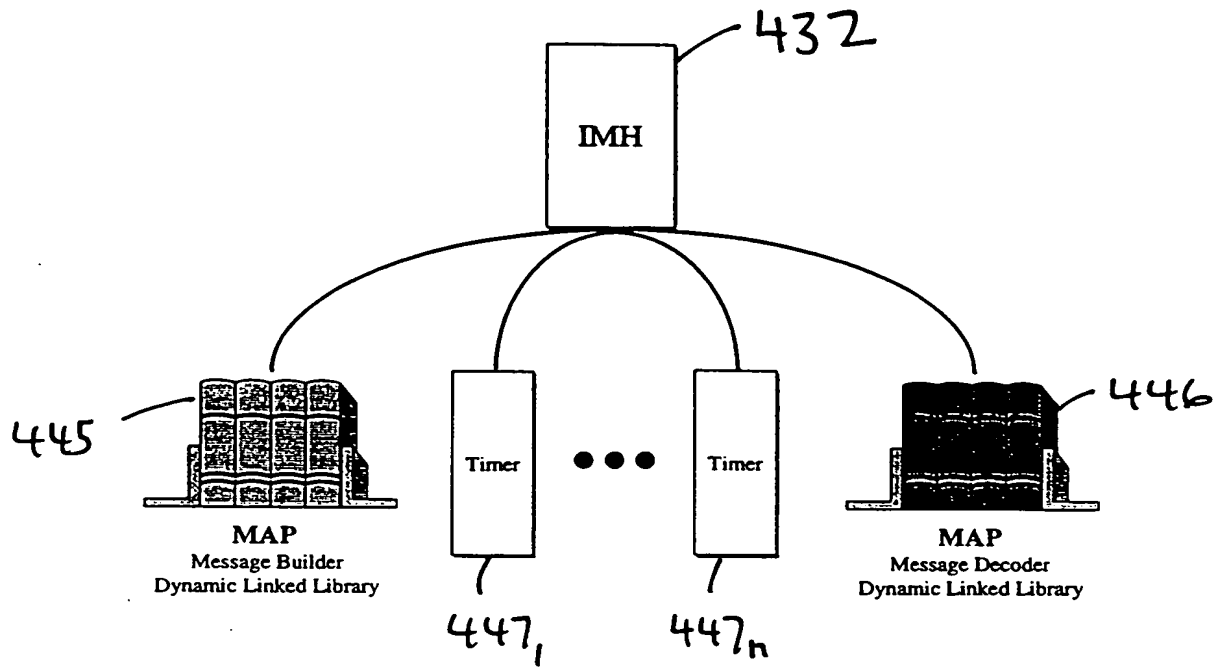


Fig. 14

DRAFT

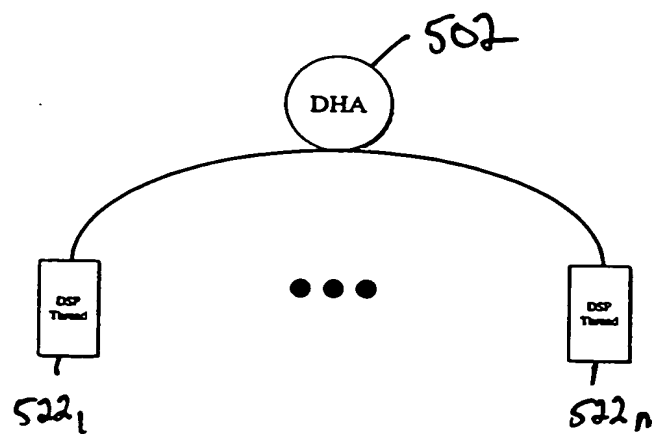


Fig. 15

09245920 020599 665020 26254260

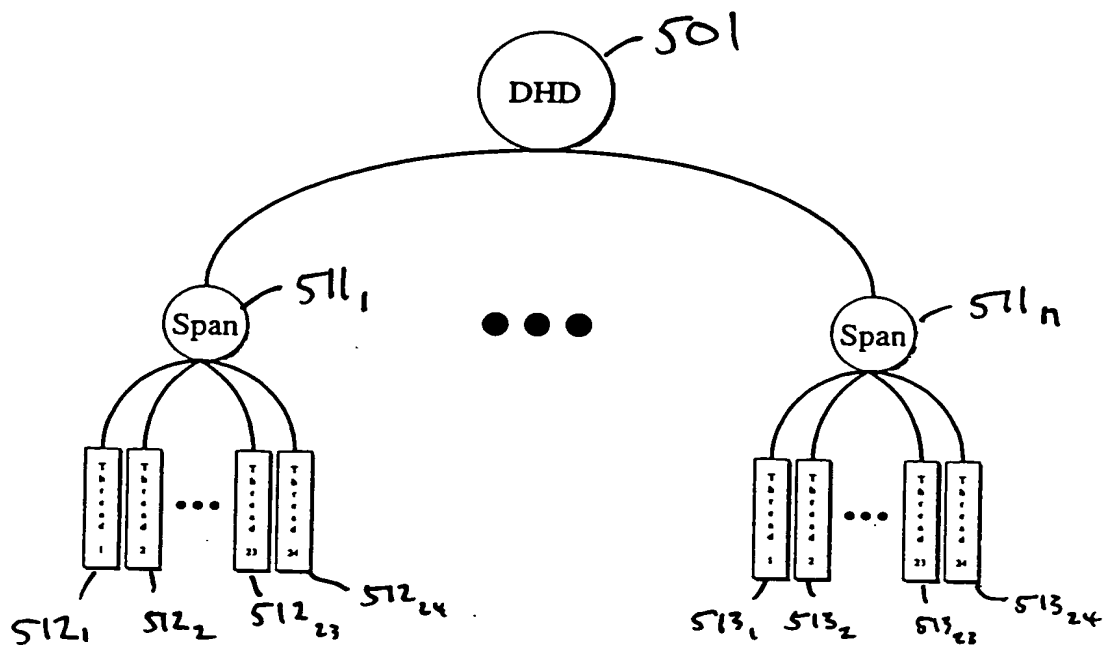


Fig. 16

09245292.020599

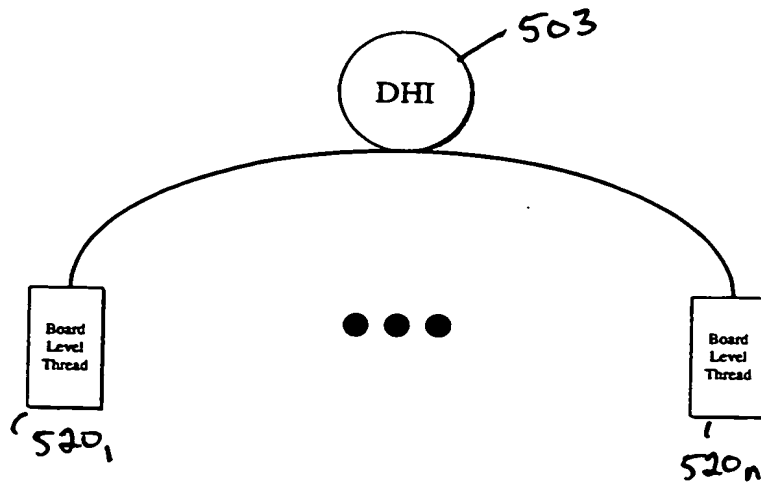


Fig. 17

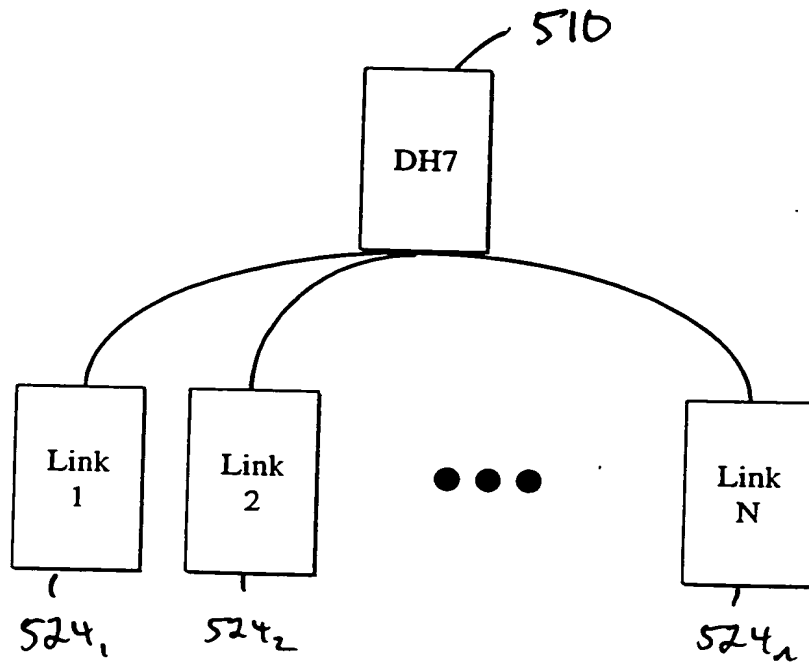
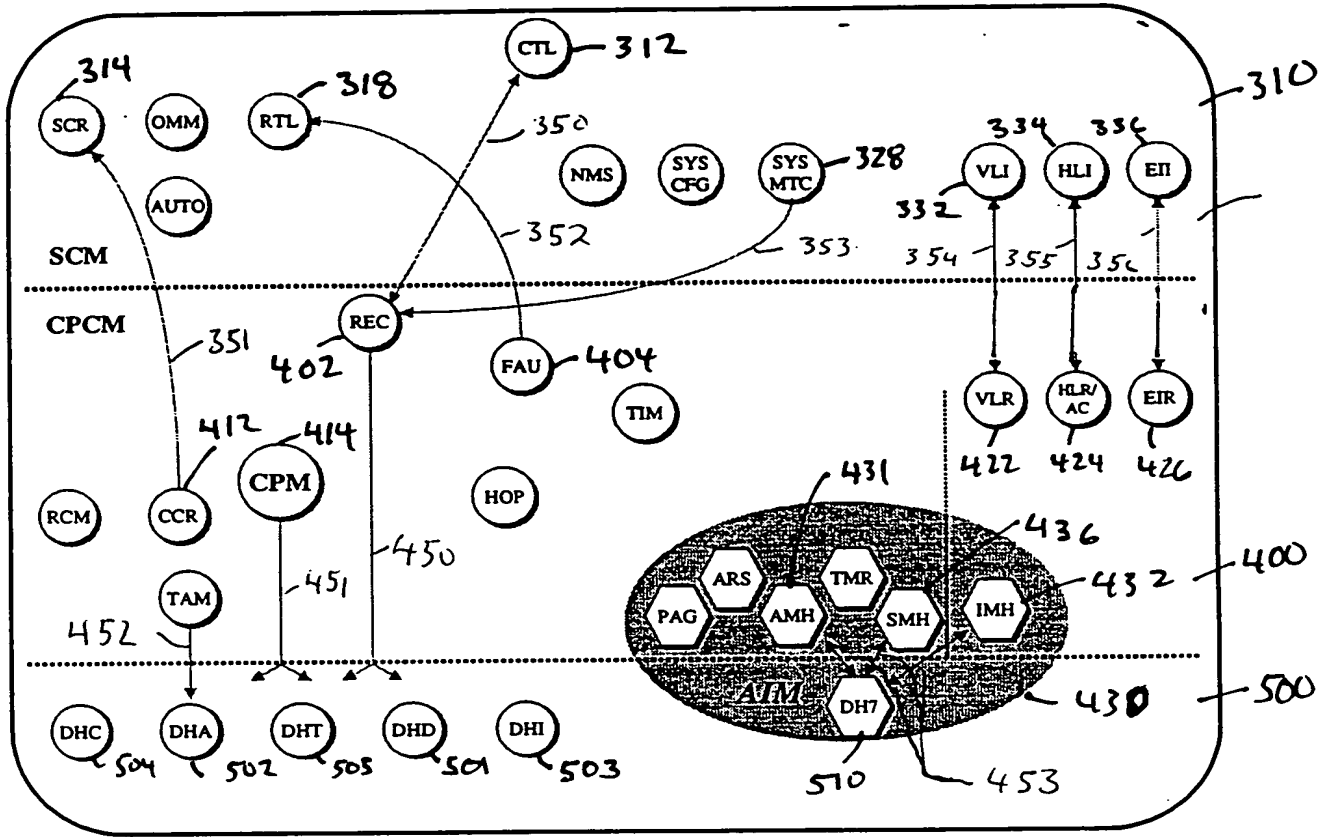


Fig. 18

665020" 26254260



300 ↗

Fig. 19

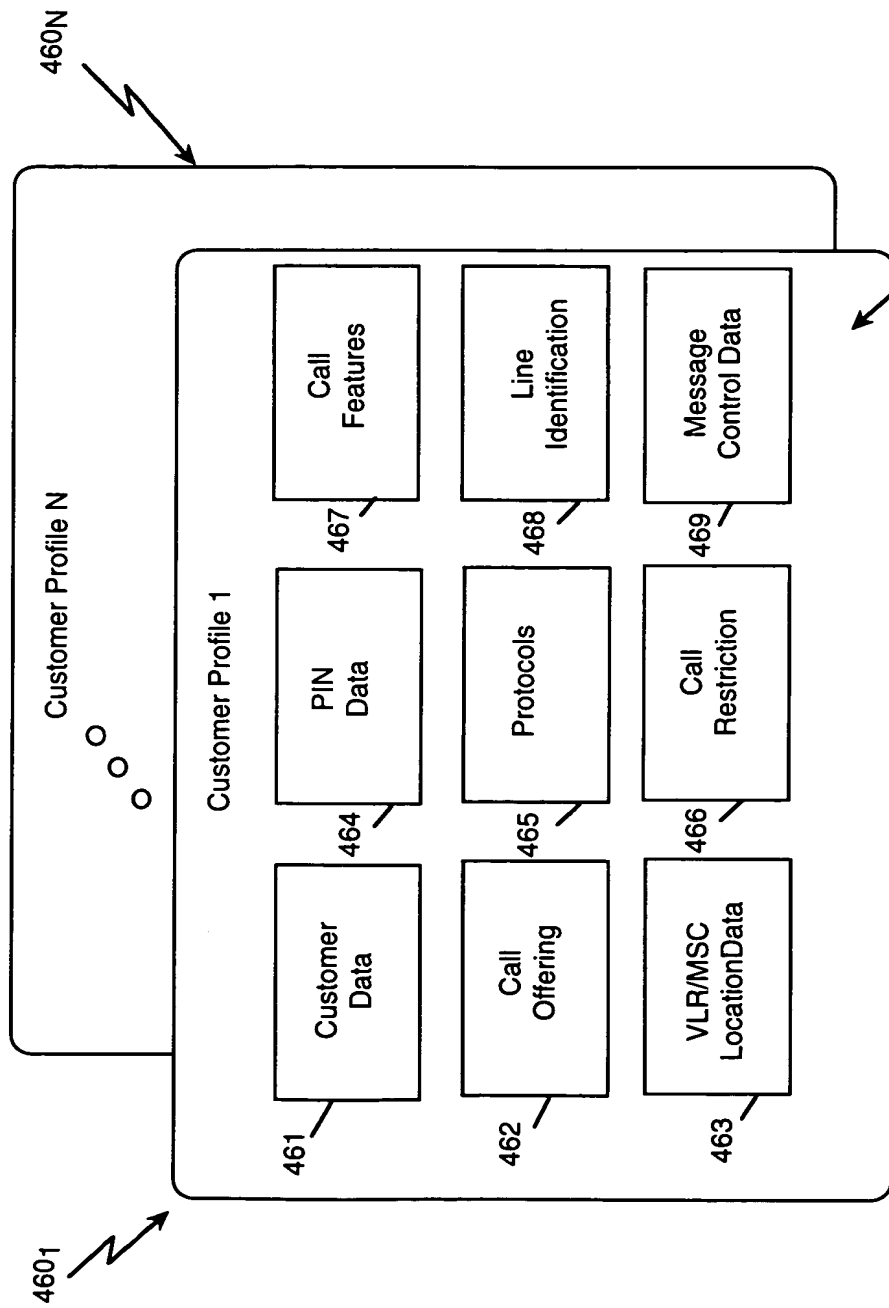


Fig. 20

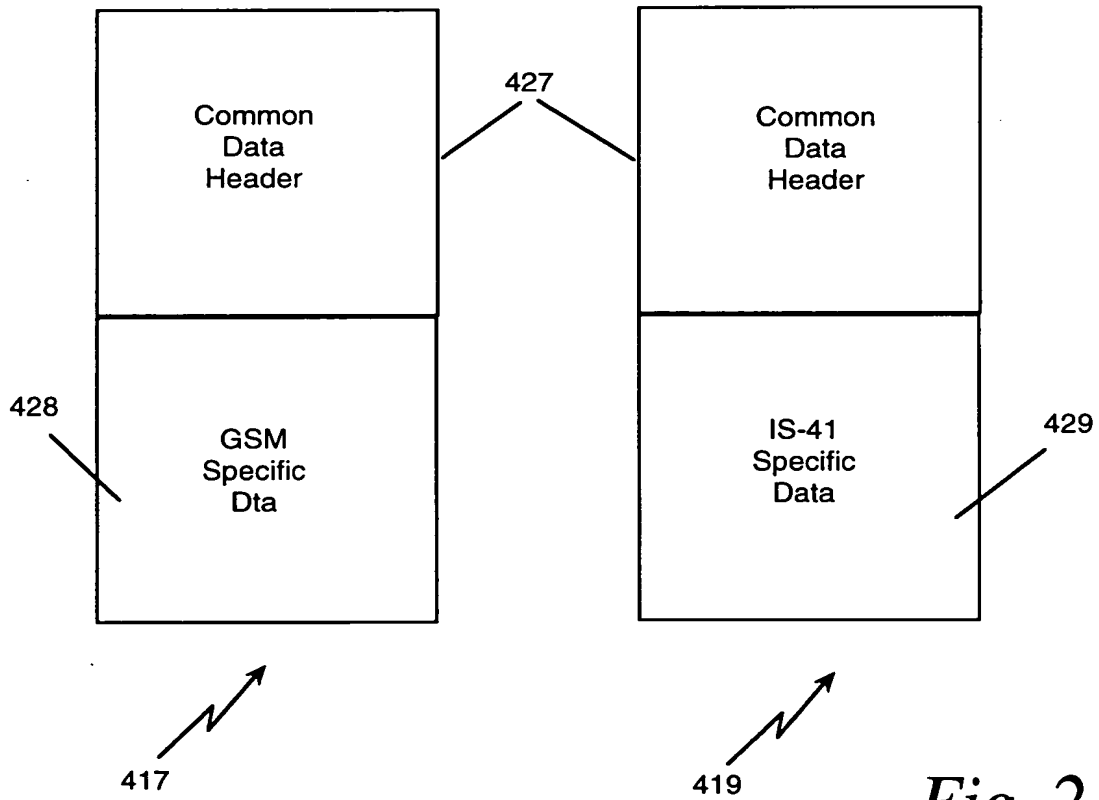


Fig. 21

09245292.020599

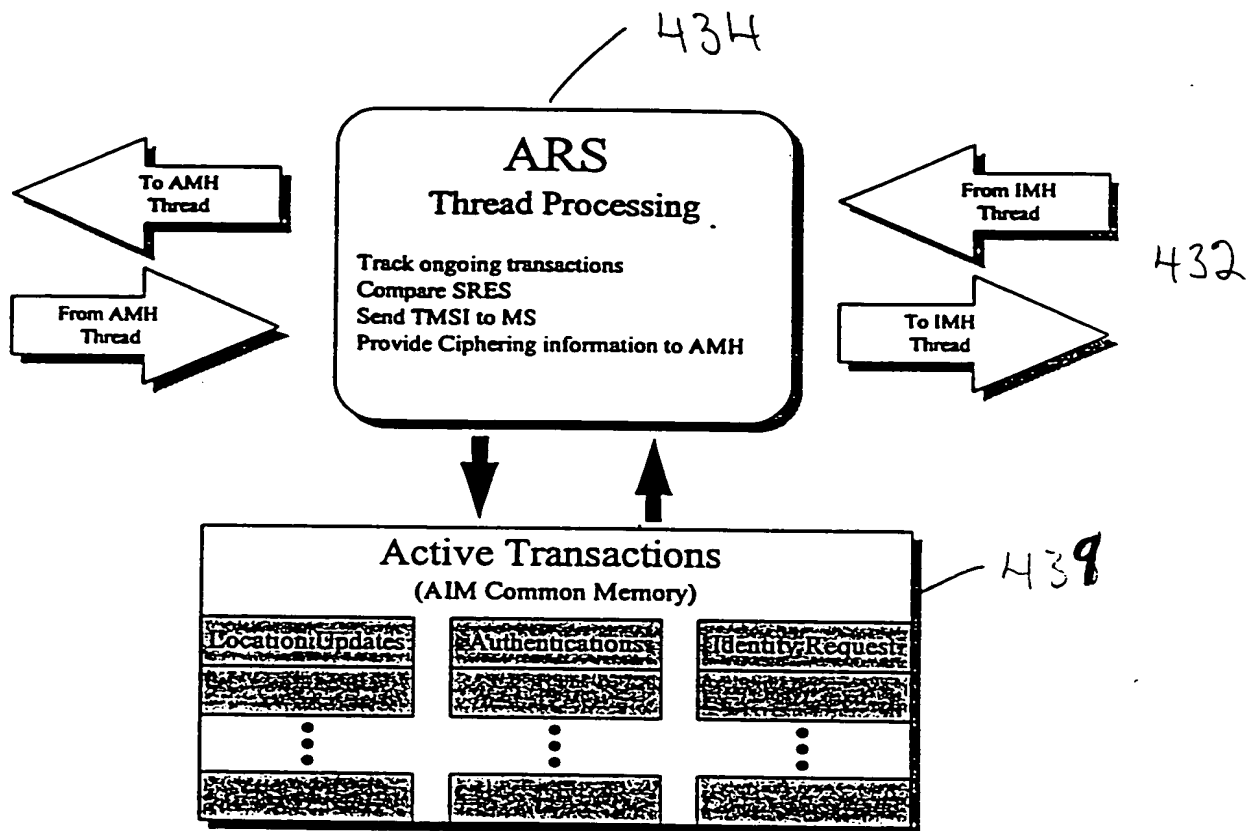


Fig. 22

09245290 020599

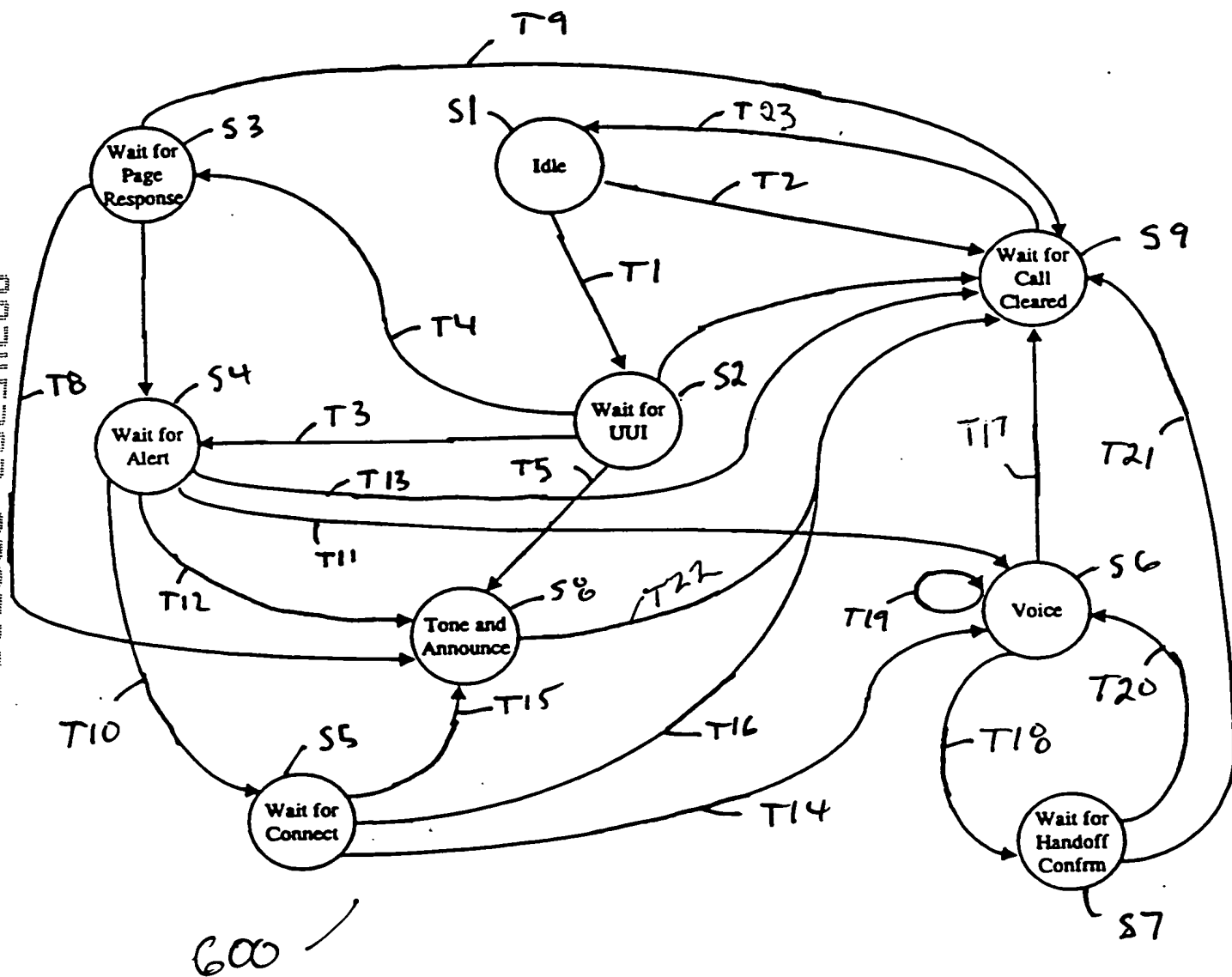


Fig. 23

555020" 26254260

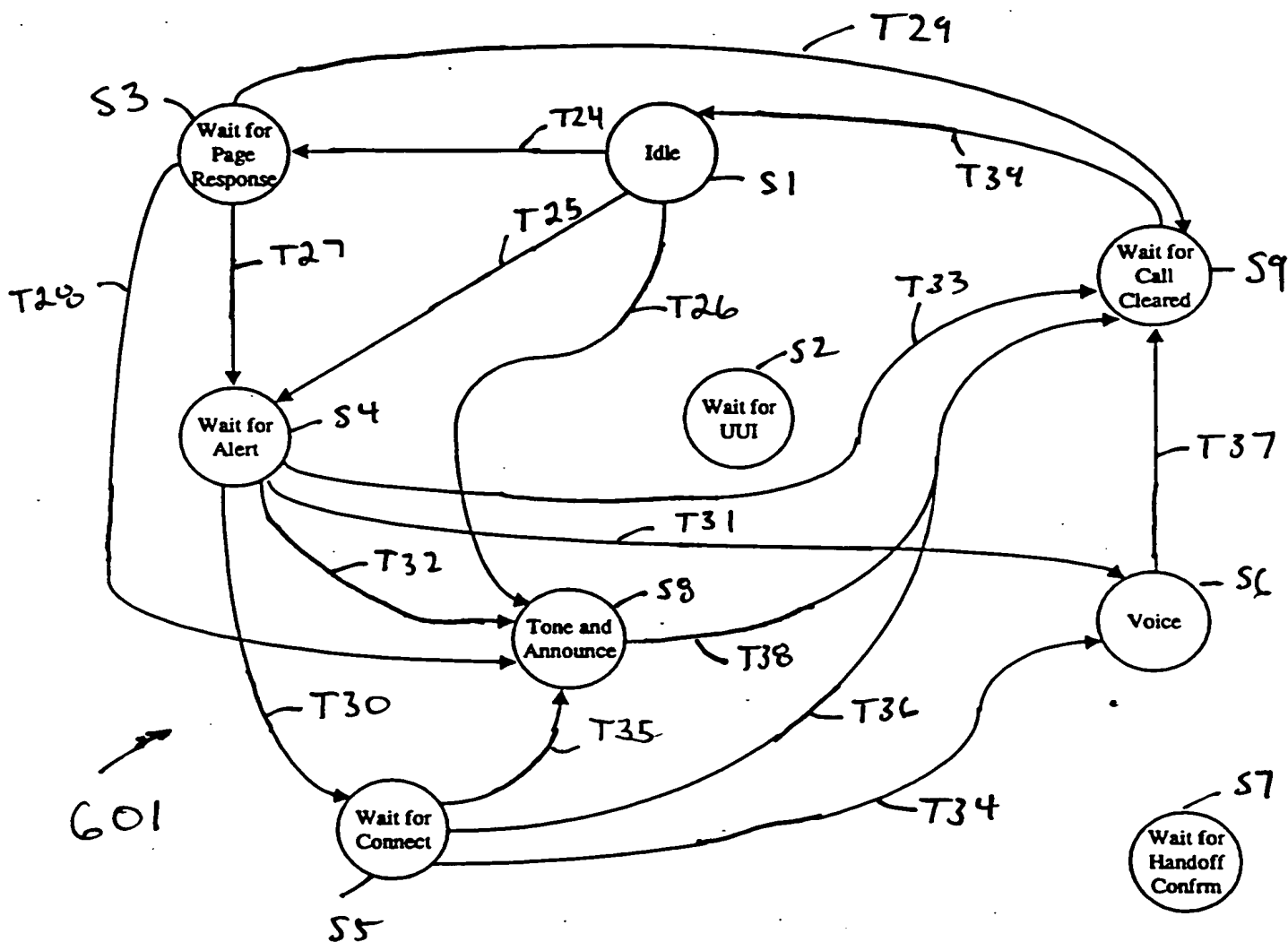


Fig. 24

09245292.020599

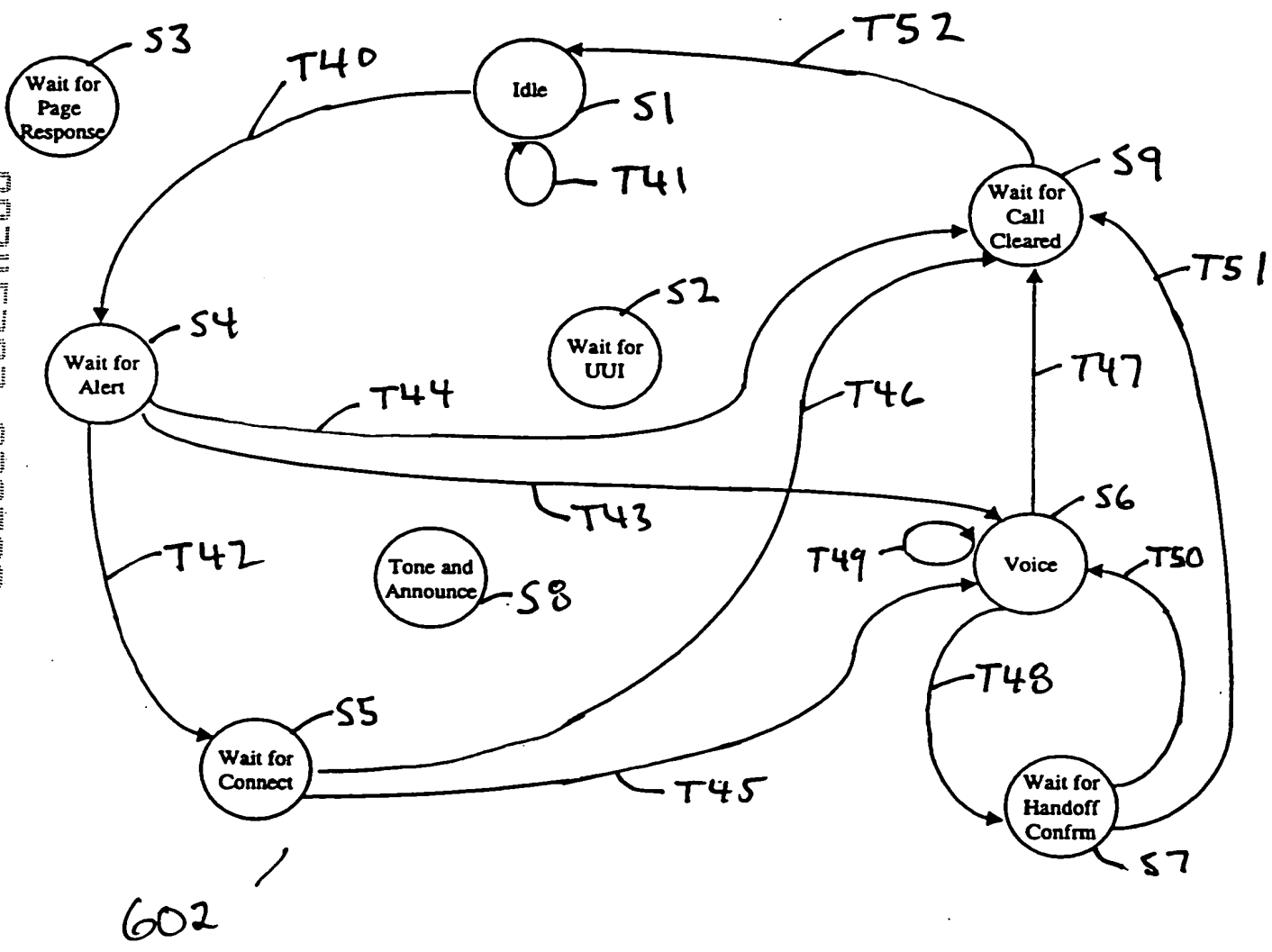


Fig. 25

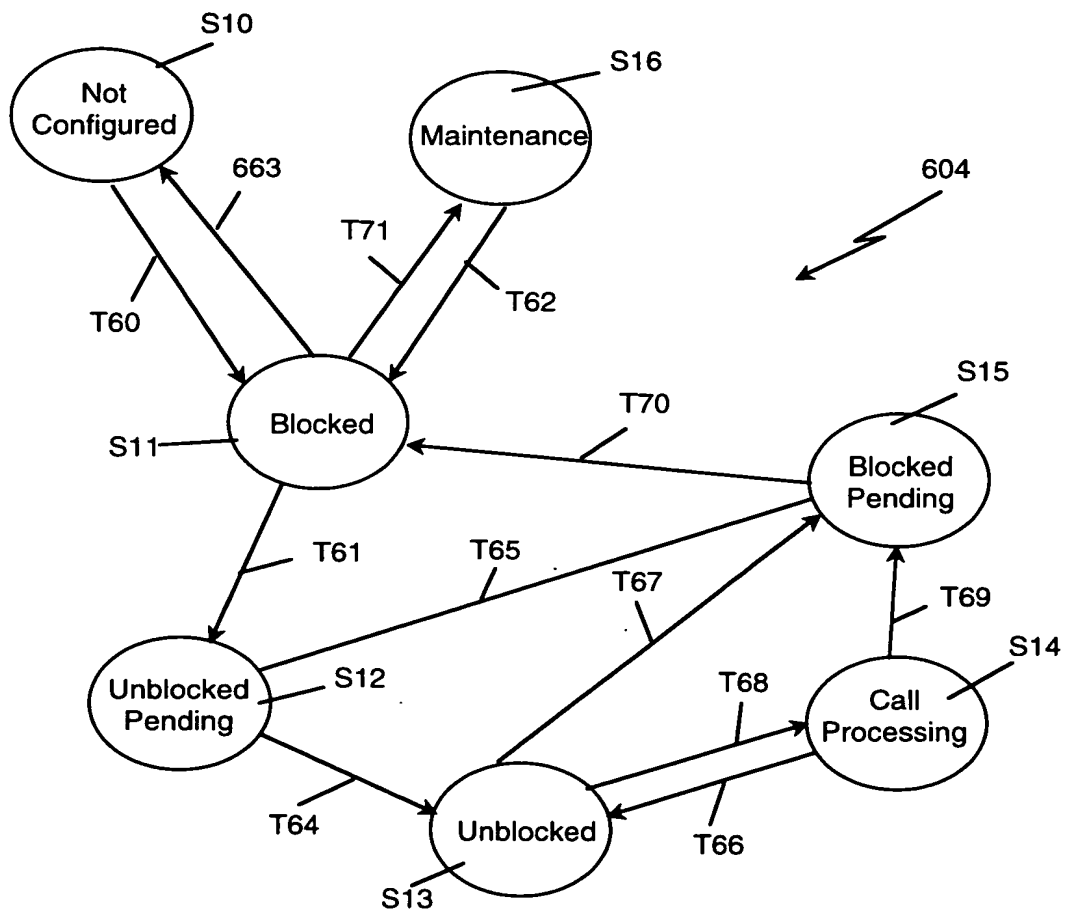
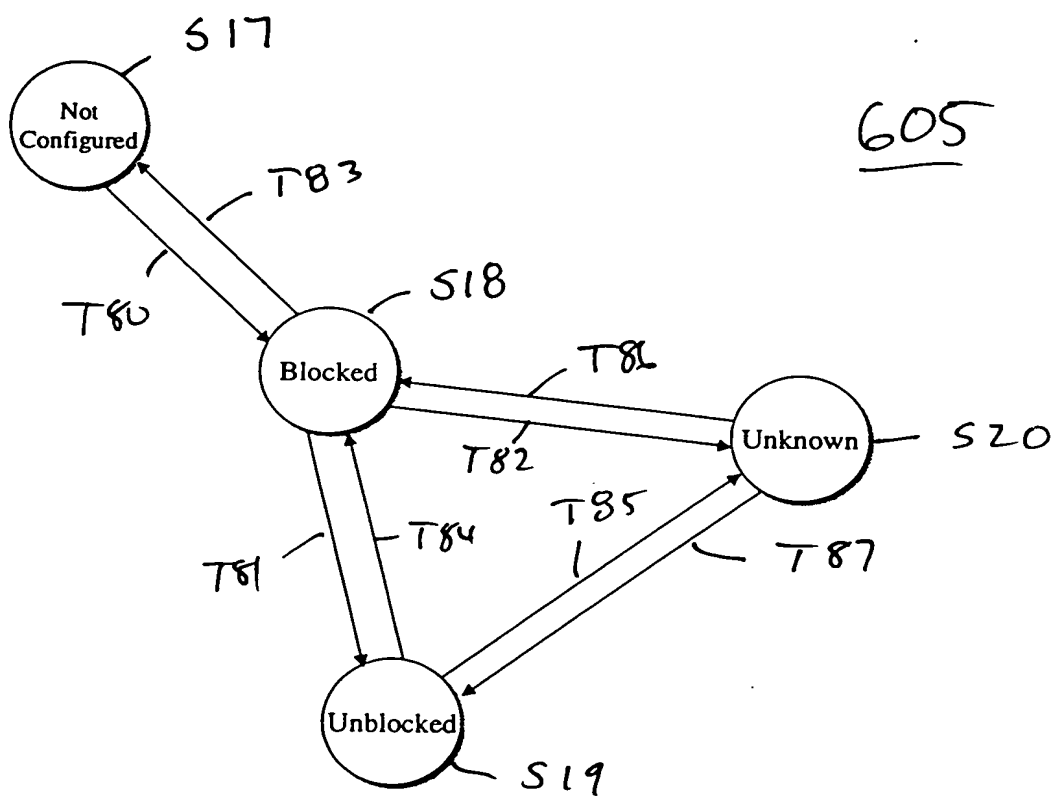


Fig. 26

FIG 27



09245292.020599
665020" 26254260

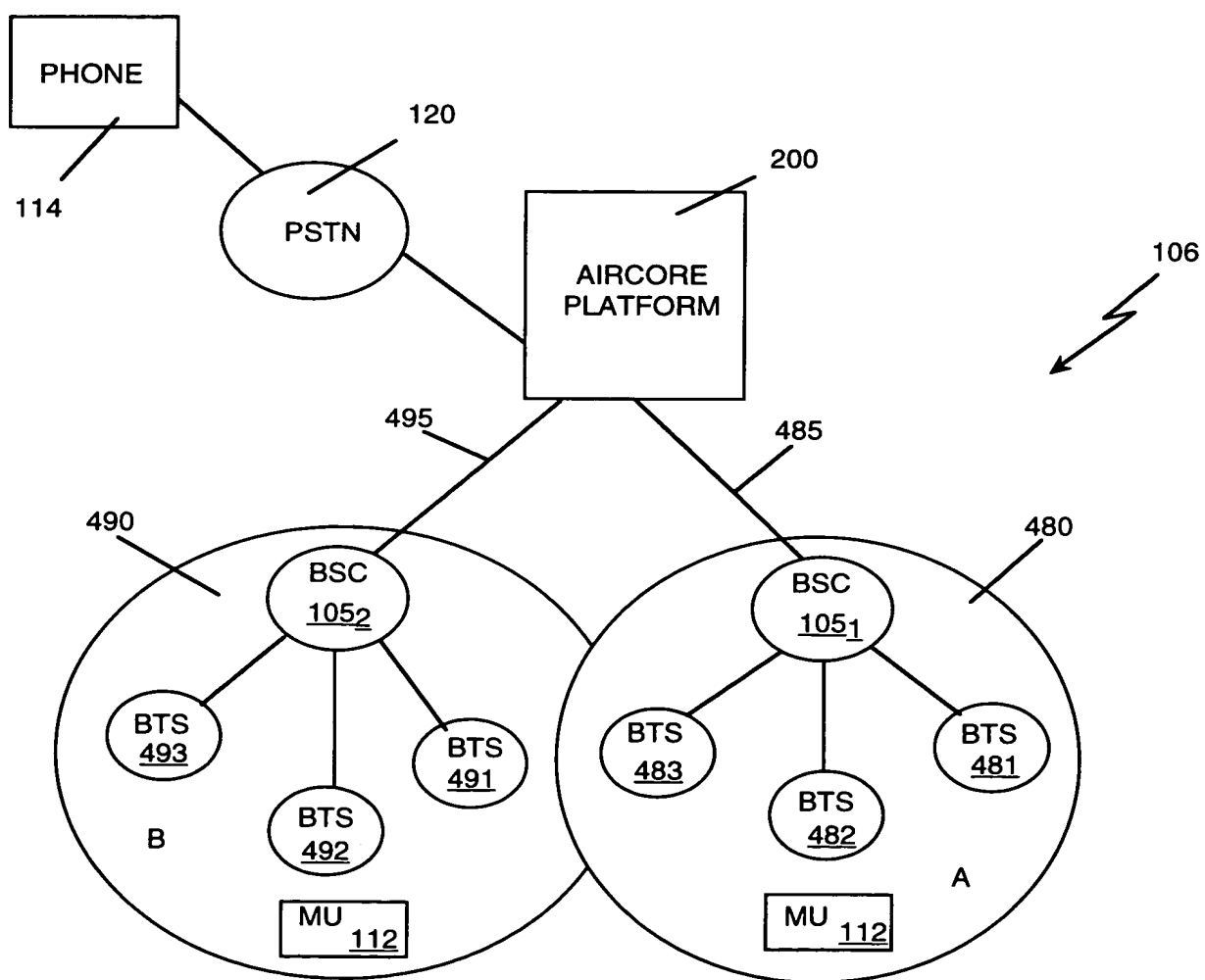


Fig. 28

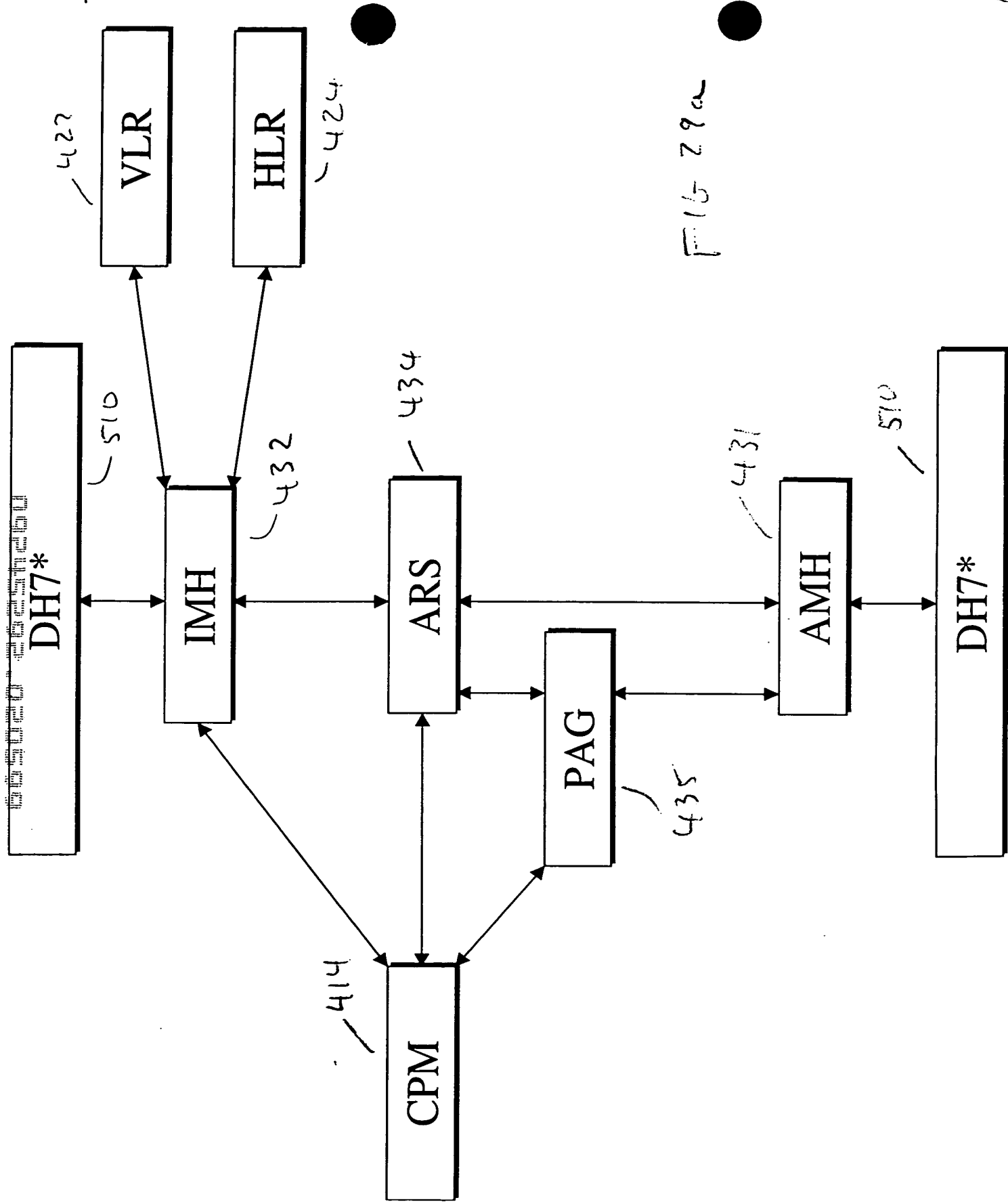


FIG 29a

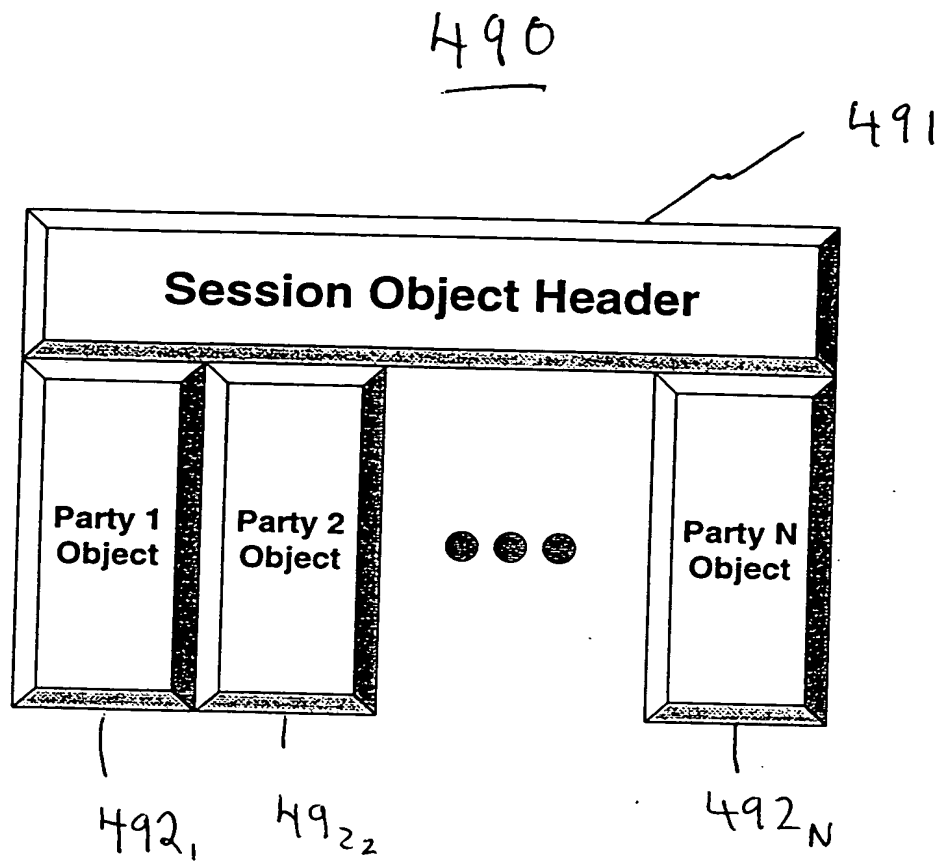


FIG 29b

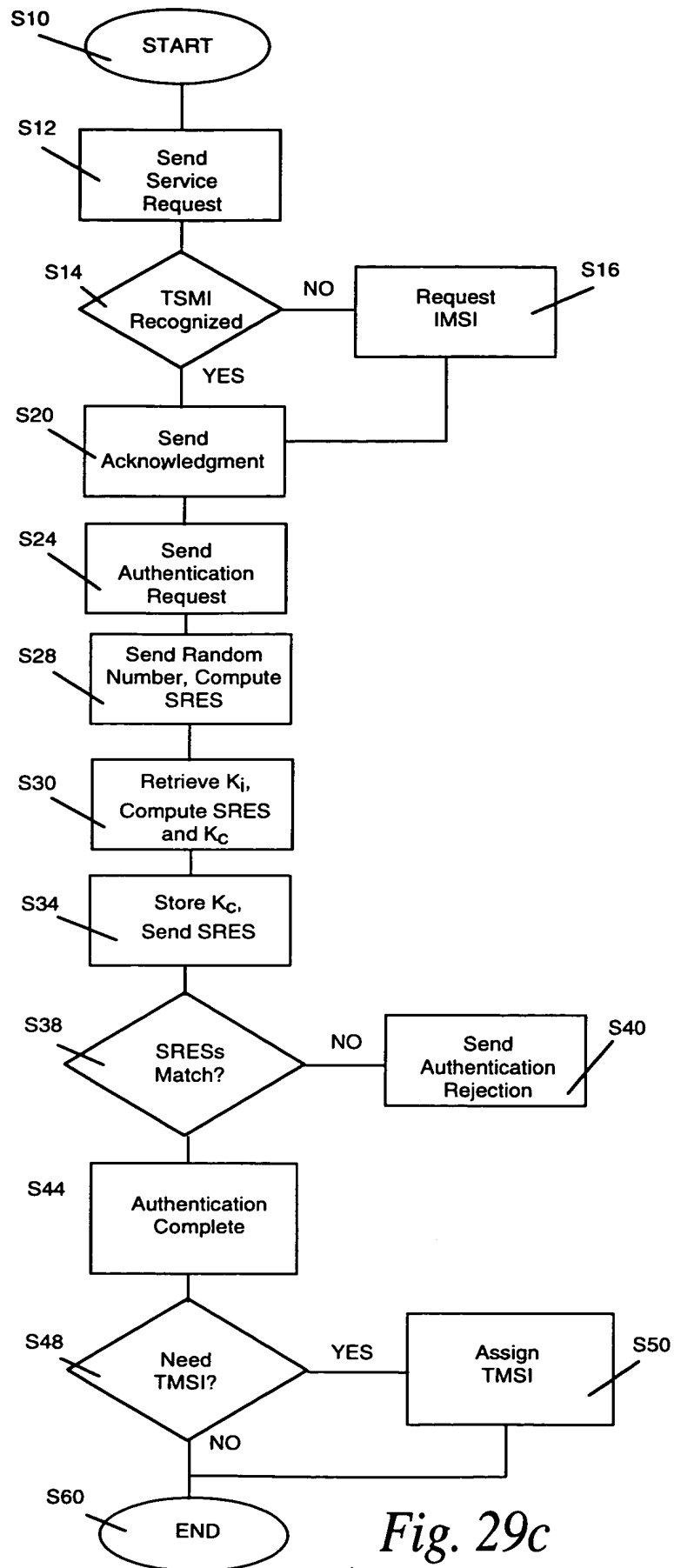


Fig. 29c

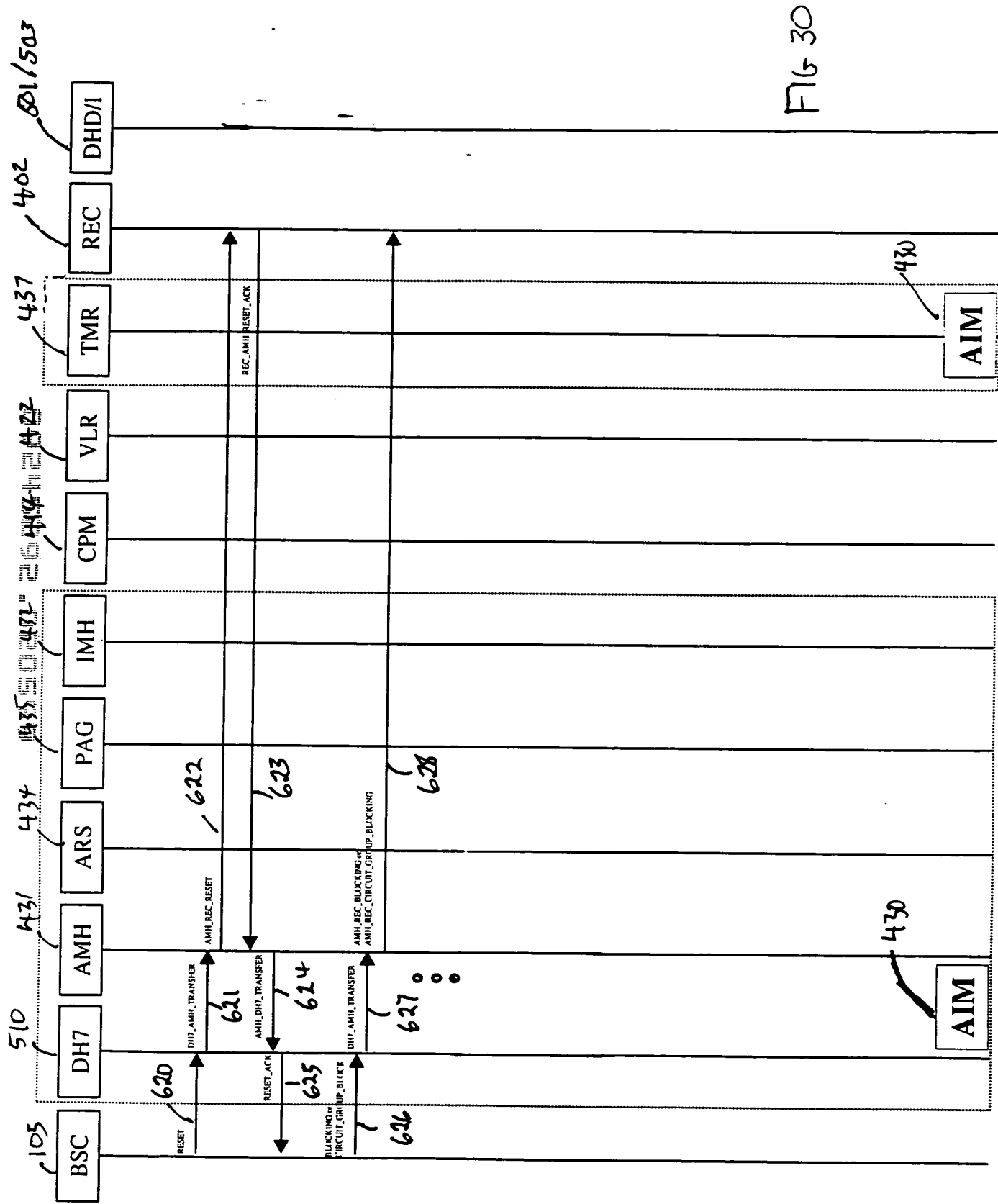


FIG 30

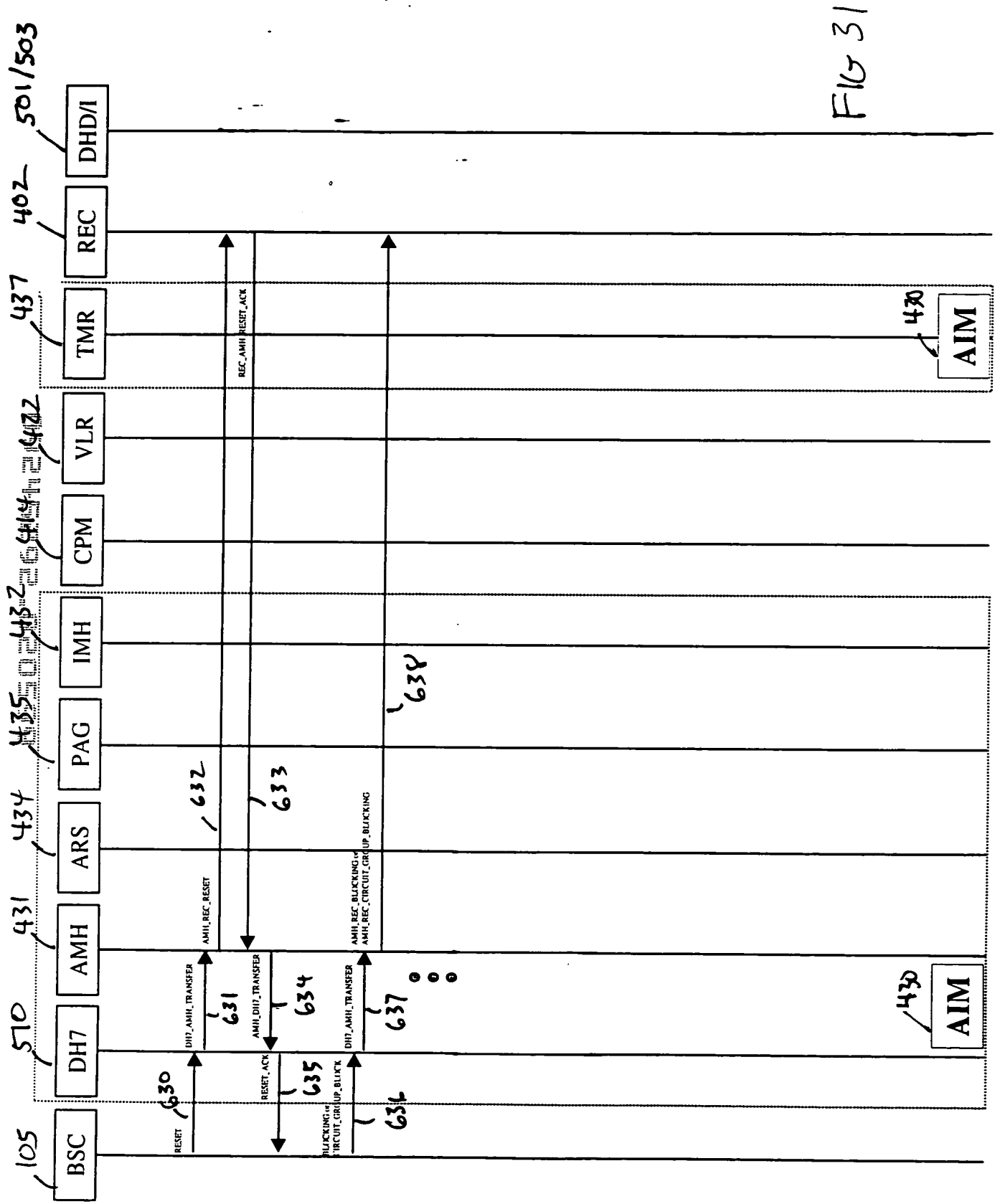


FIG 31

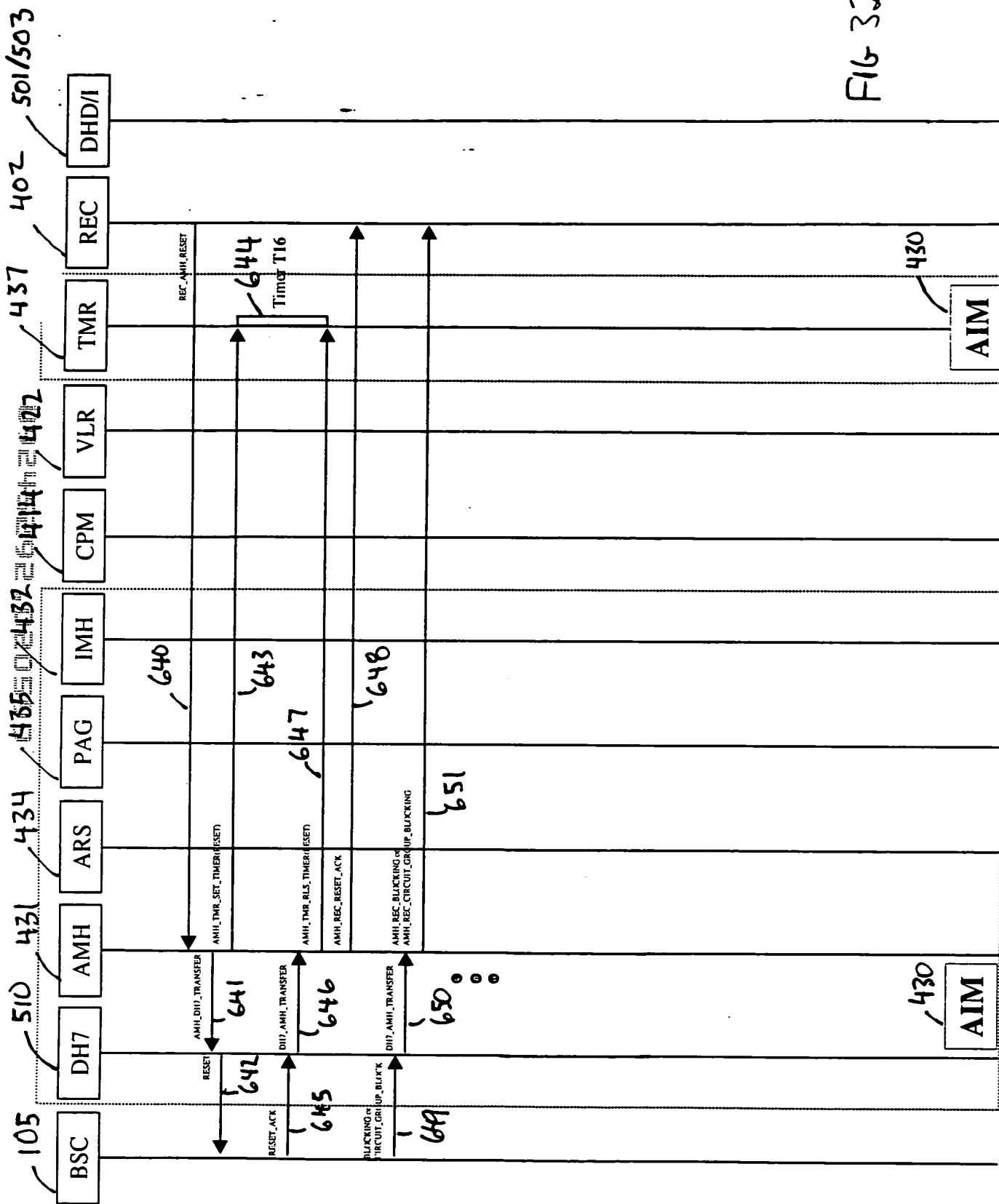
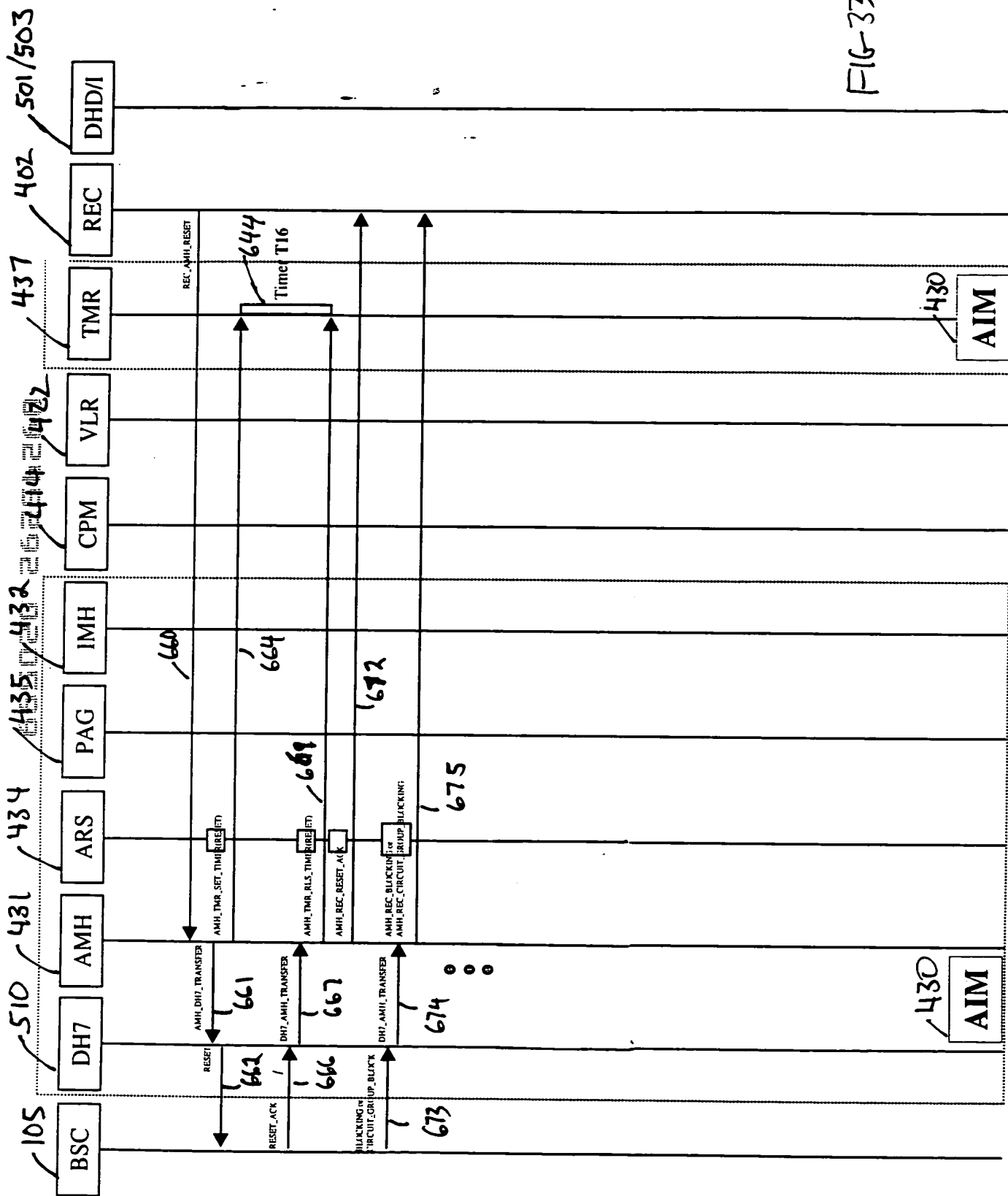


Fig 32



F16-33

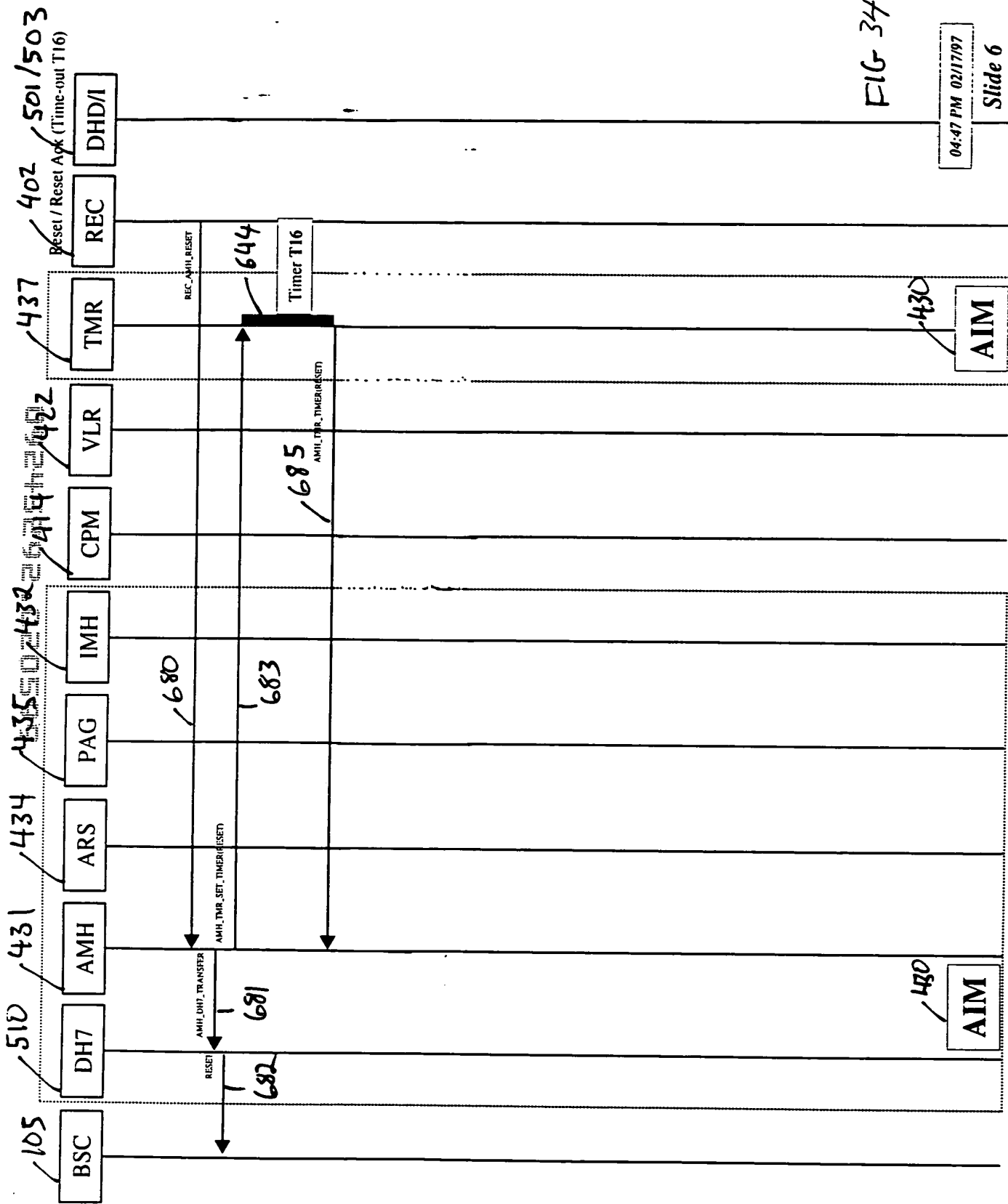
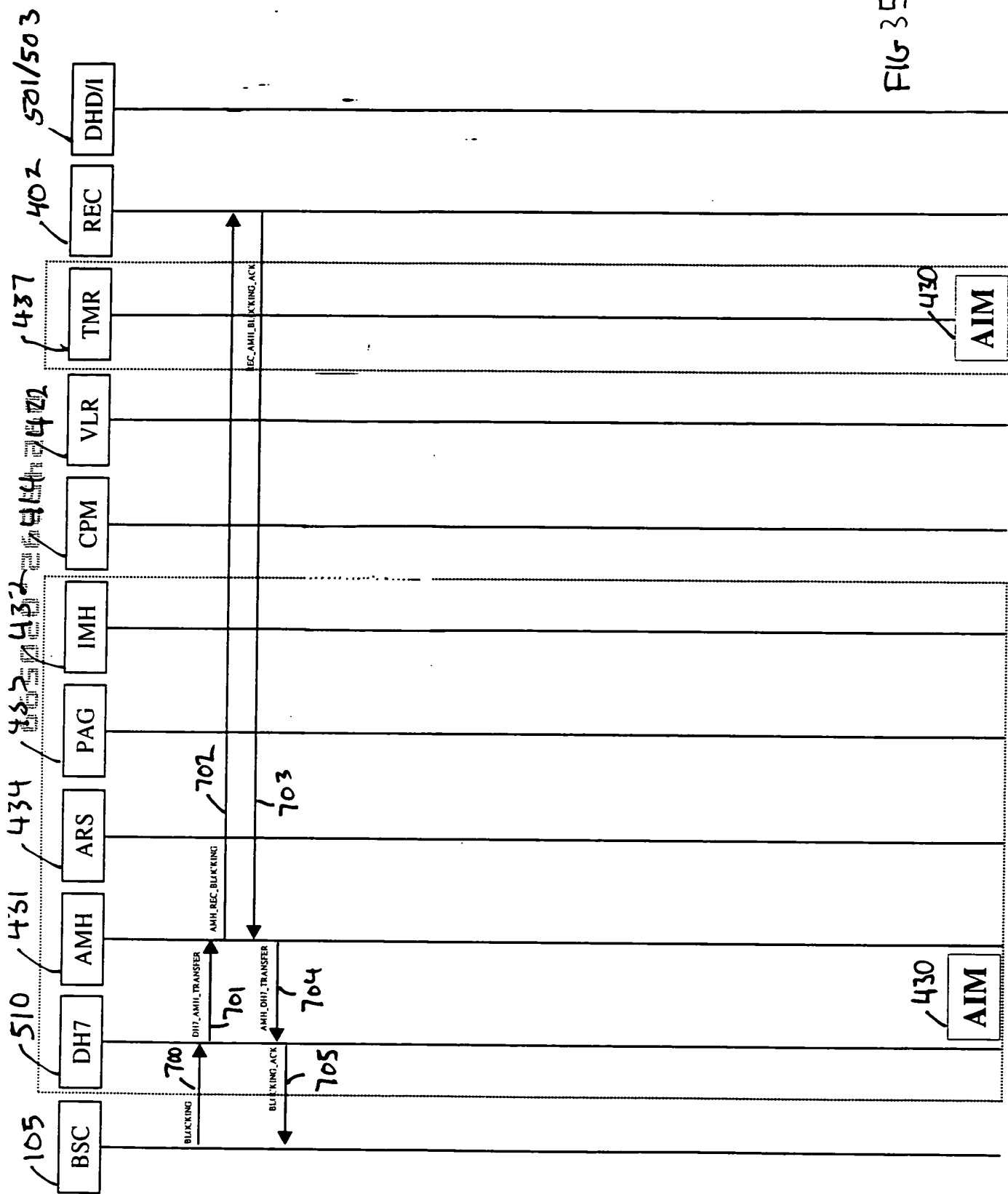


FIG 34

04:47 PM 02/17/97

Slide 6



File 35

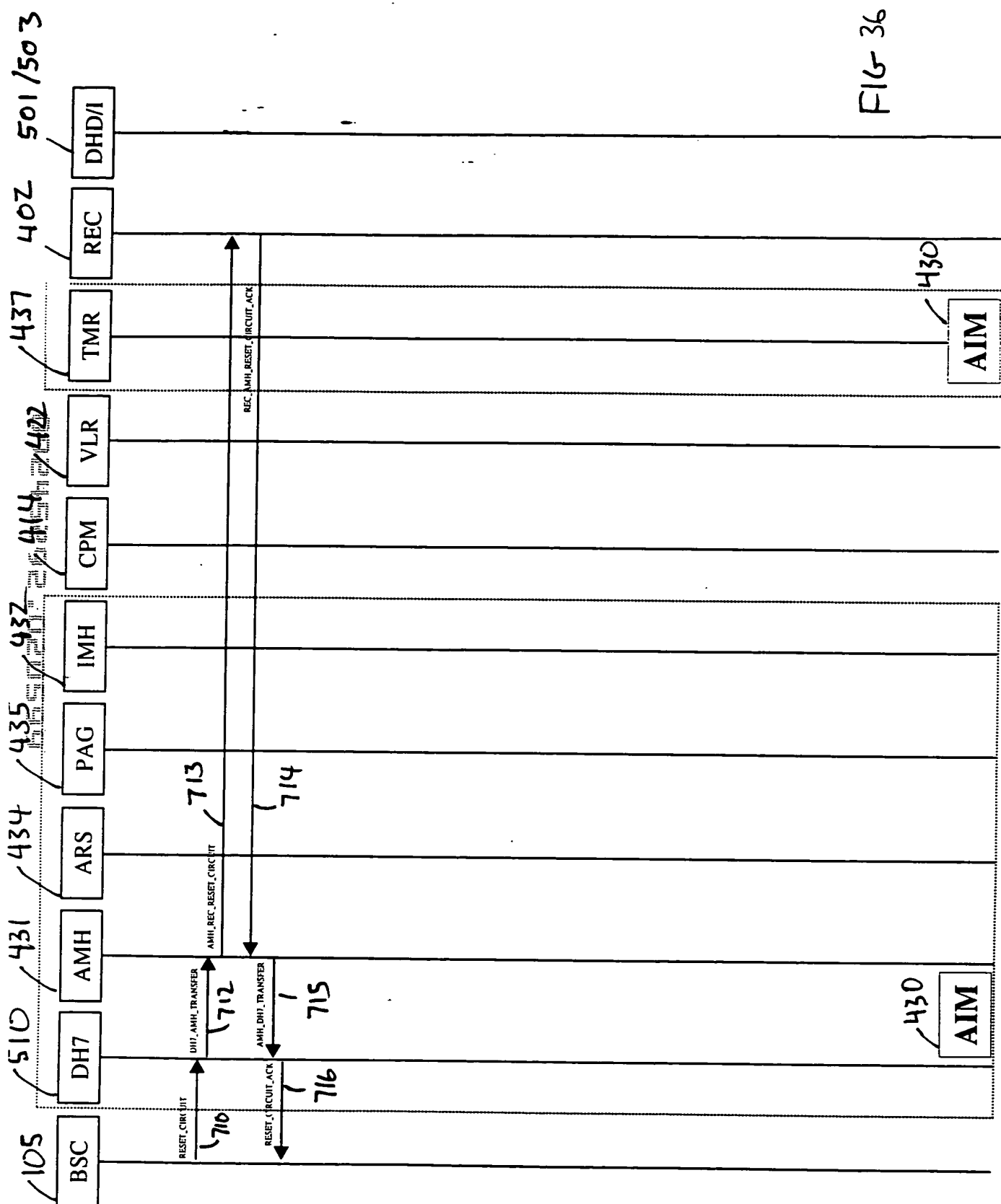


FIG-36

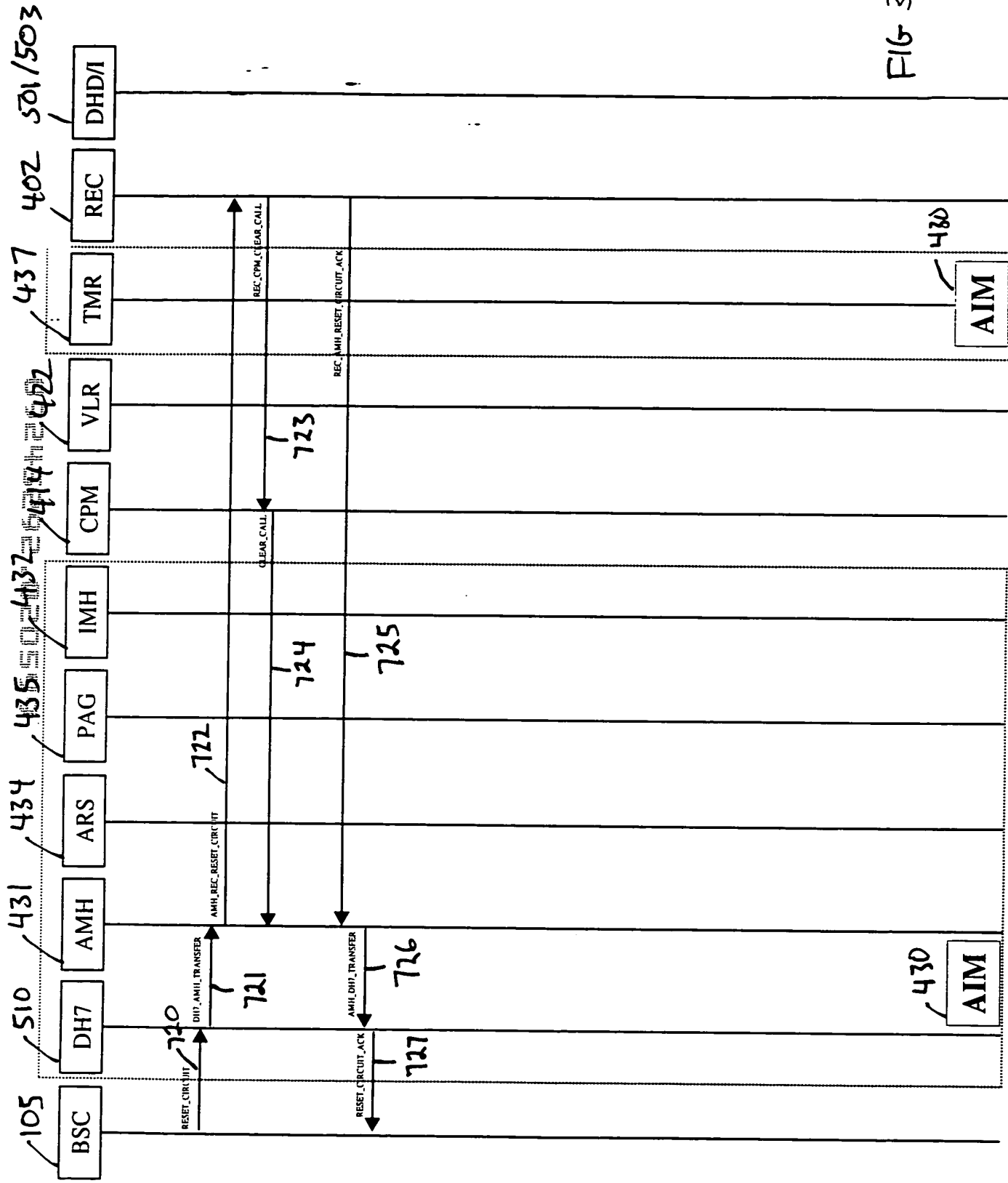


FIG- 37

AIM

AIM

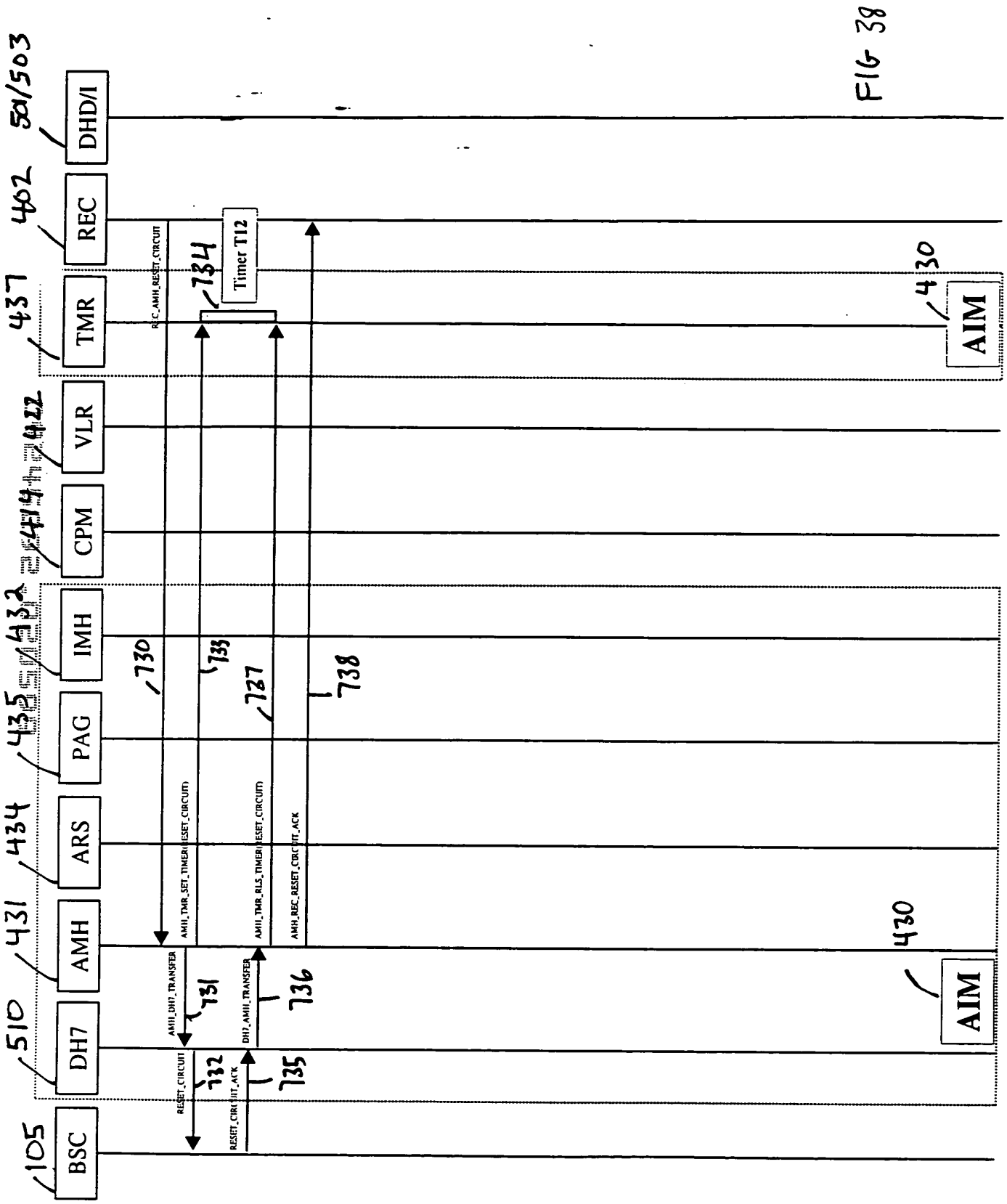


FIG 38

105 510 431 434 435 432 414 422 437 402 501/503

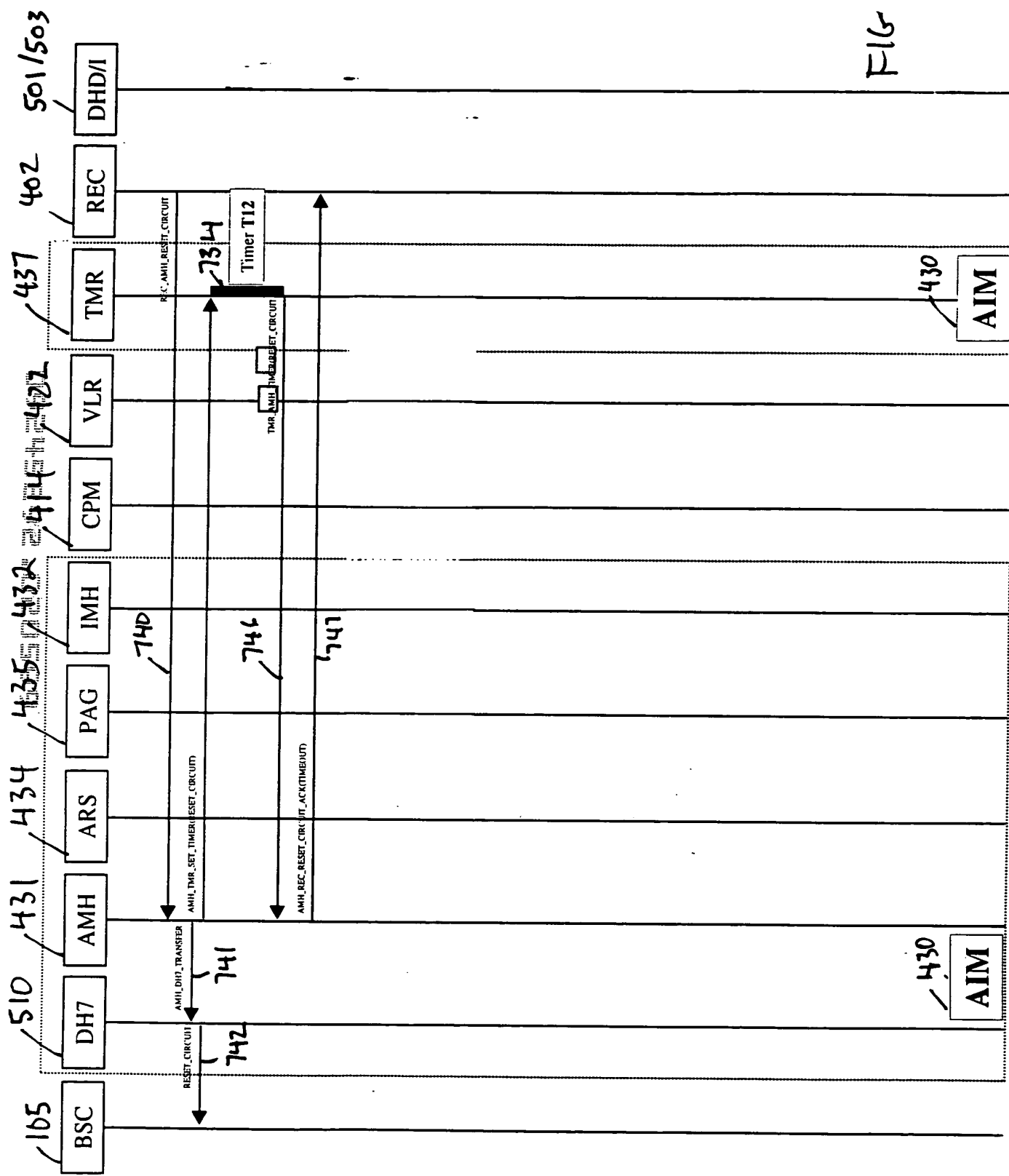


FIG 39

105 510 431 434 435 432 437 402 501/503

430

430

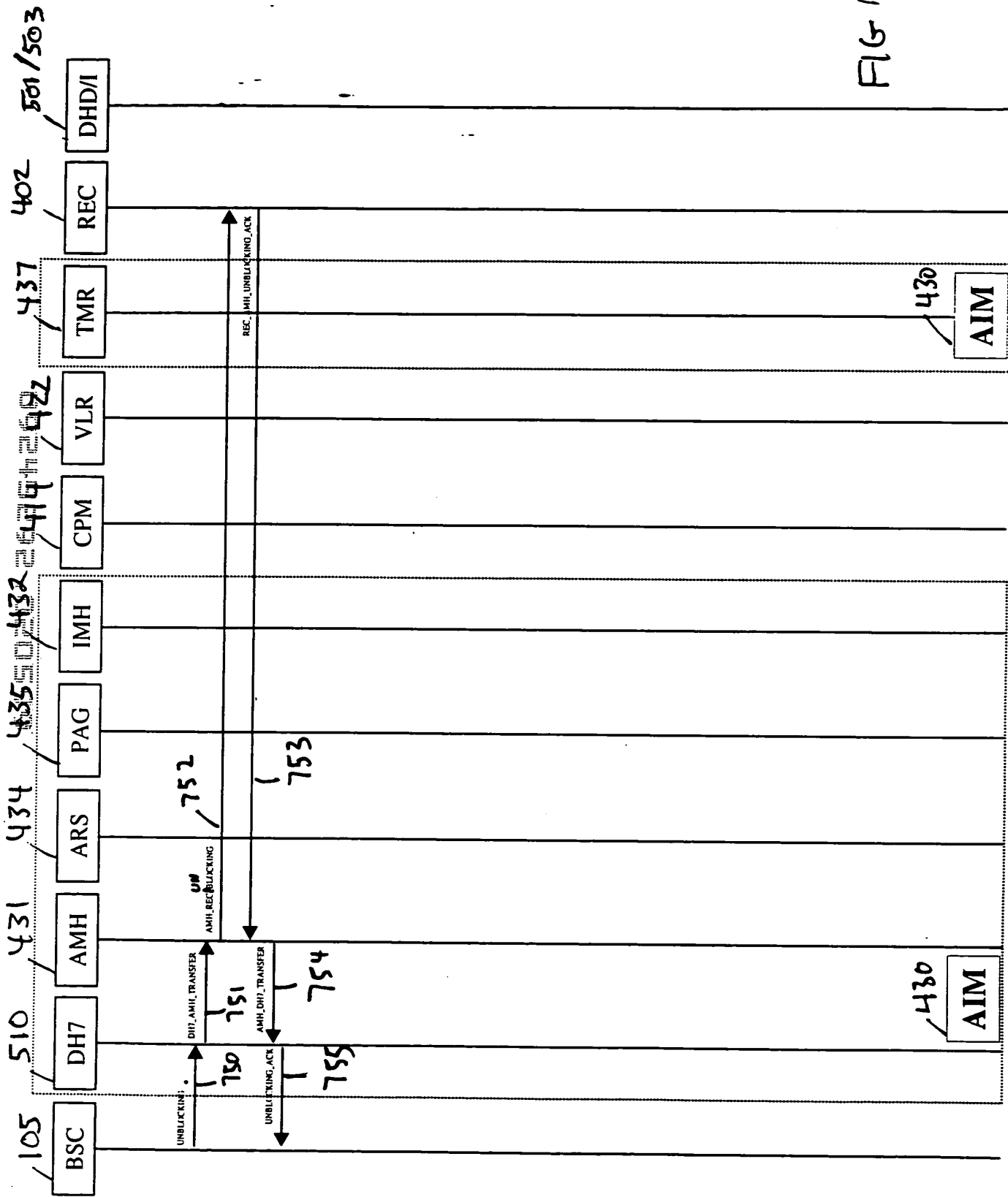
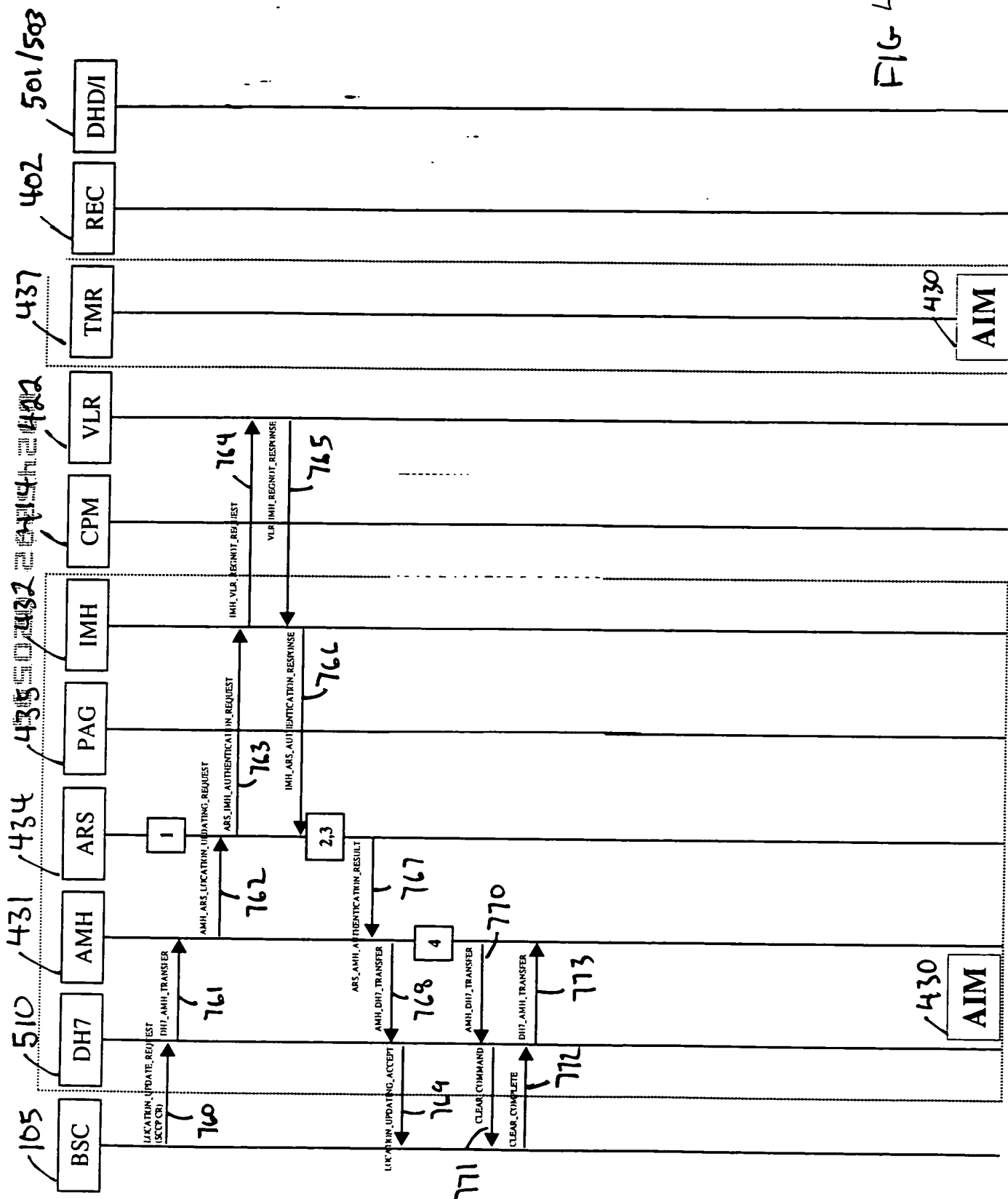
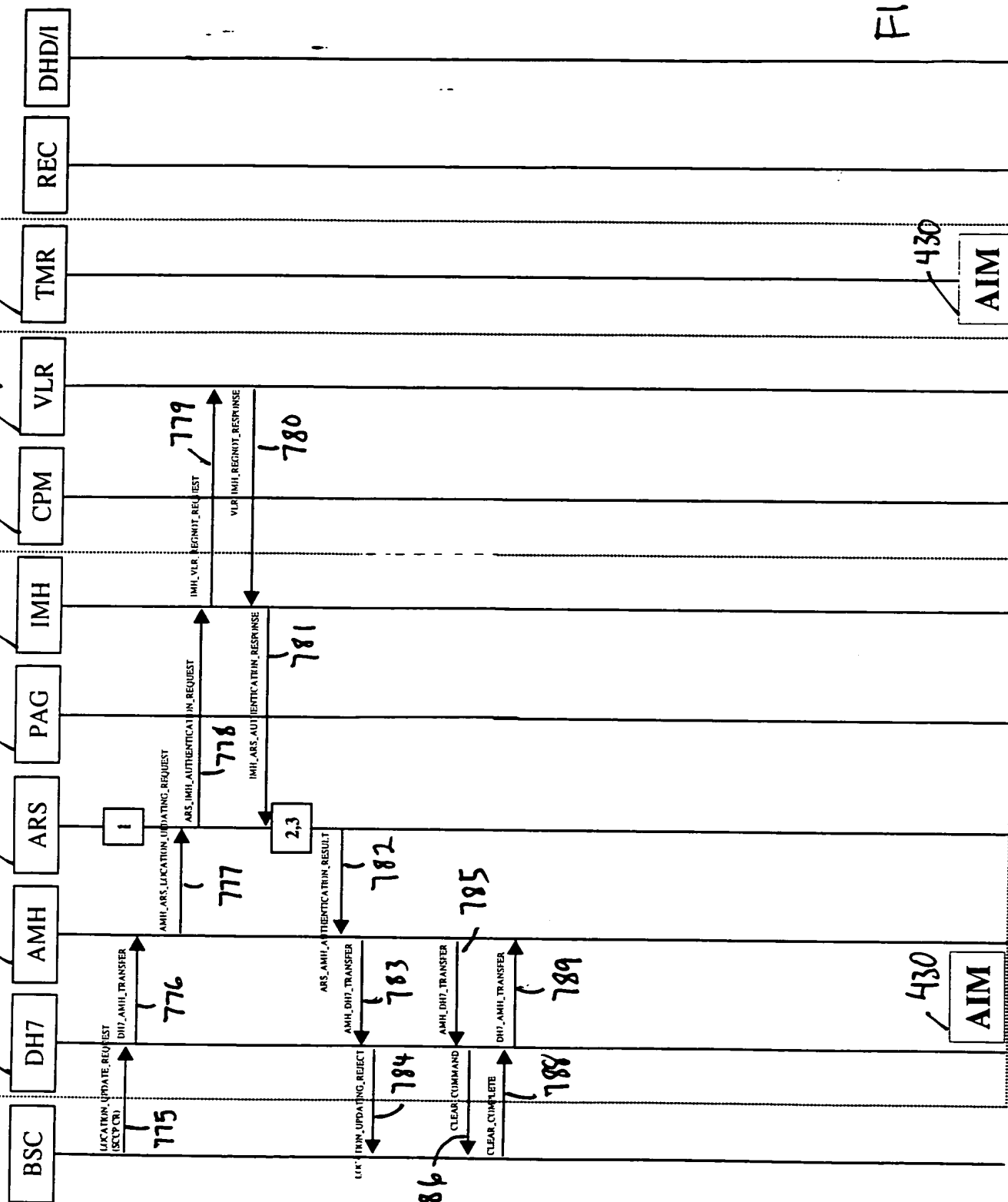


FIG 40



1794



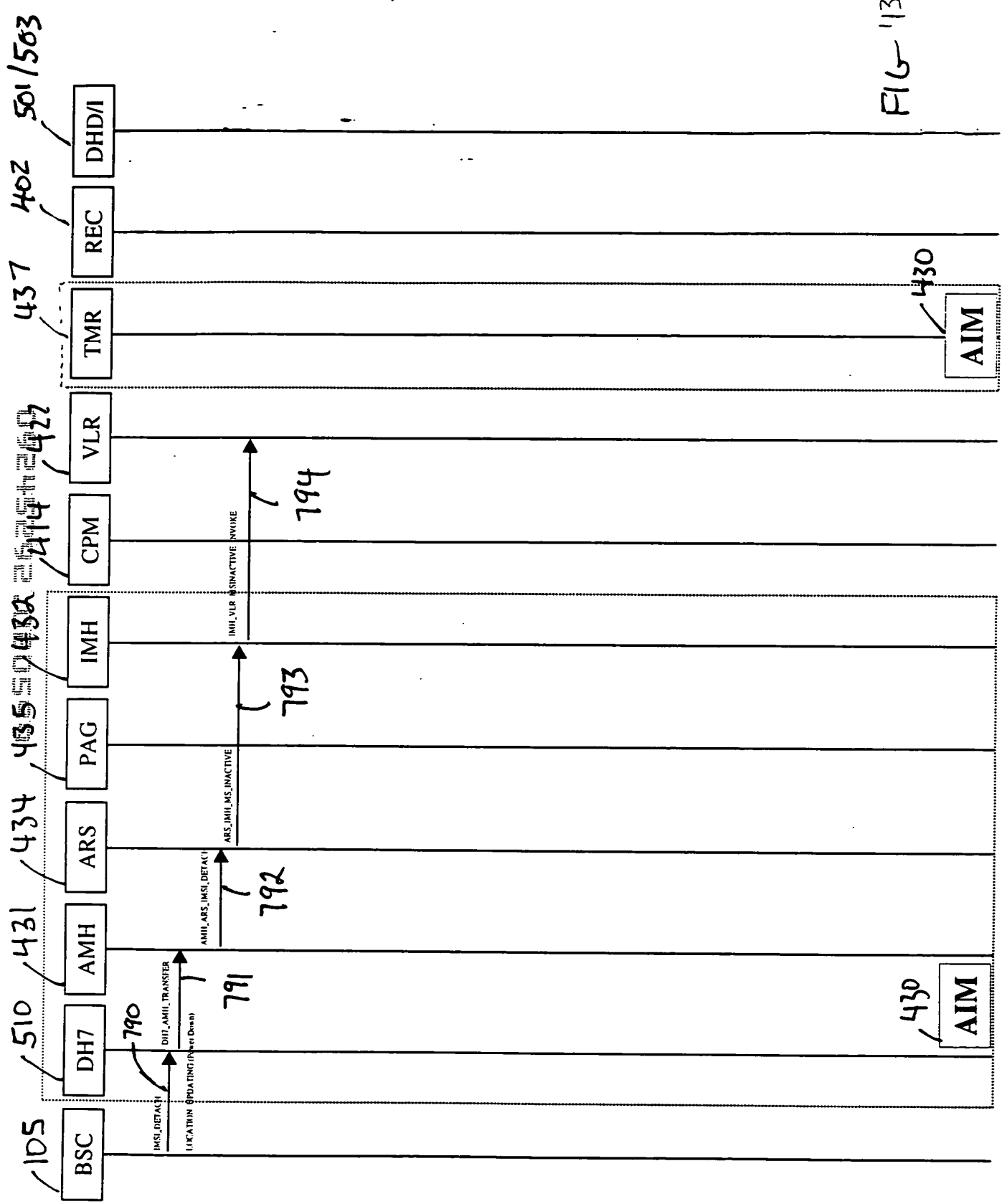
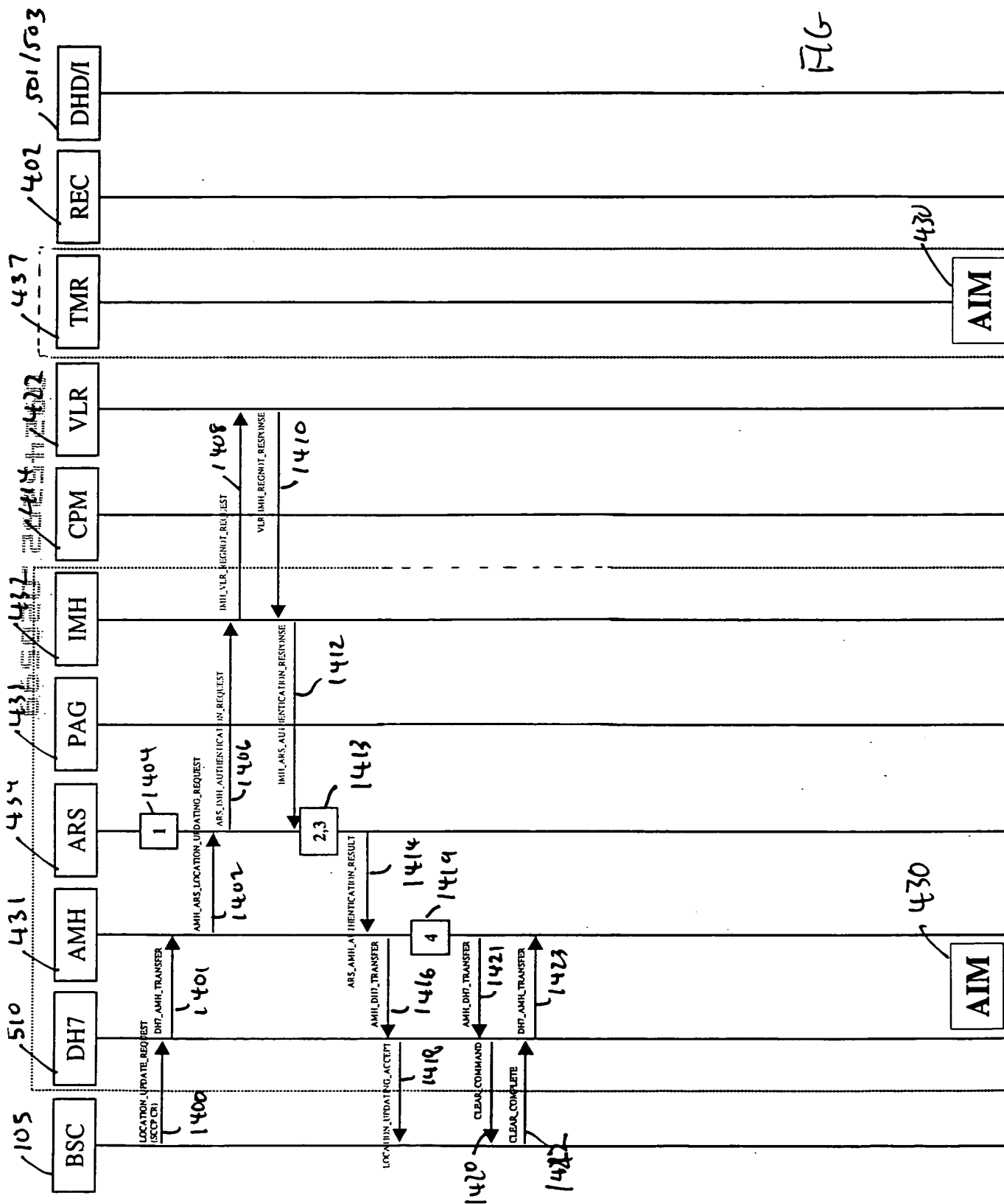
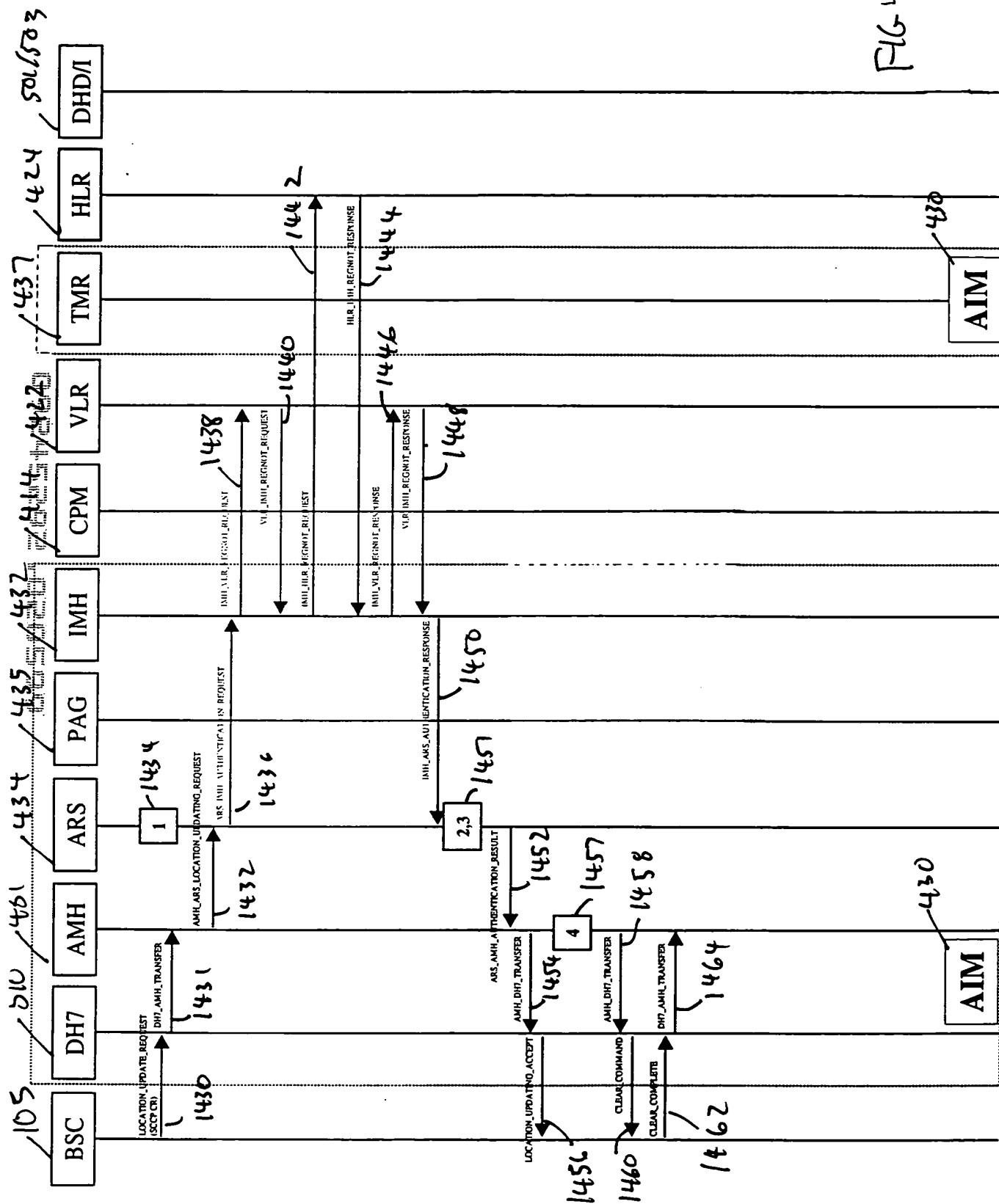


FIG-13





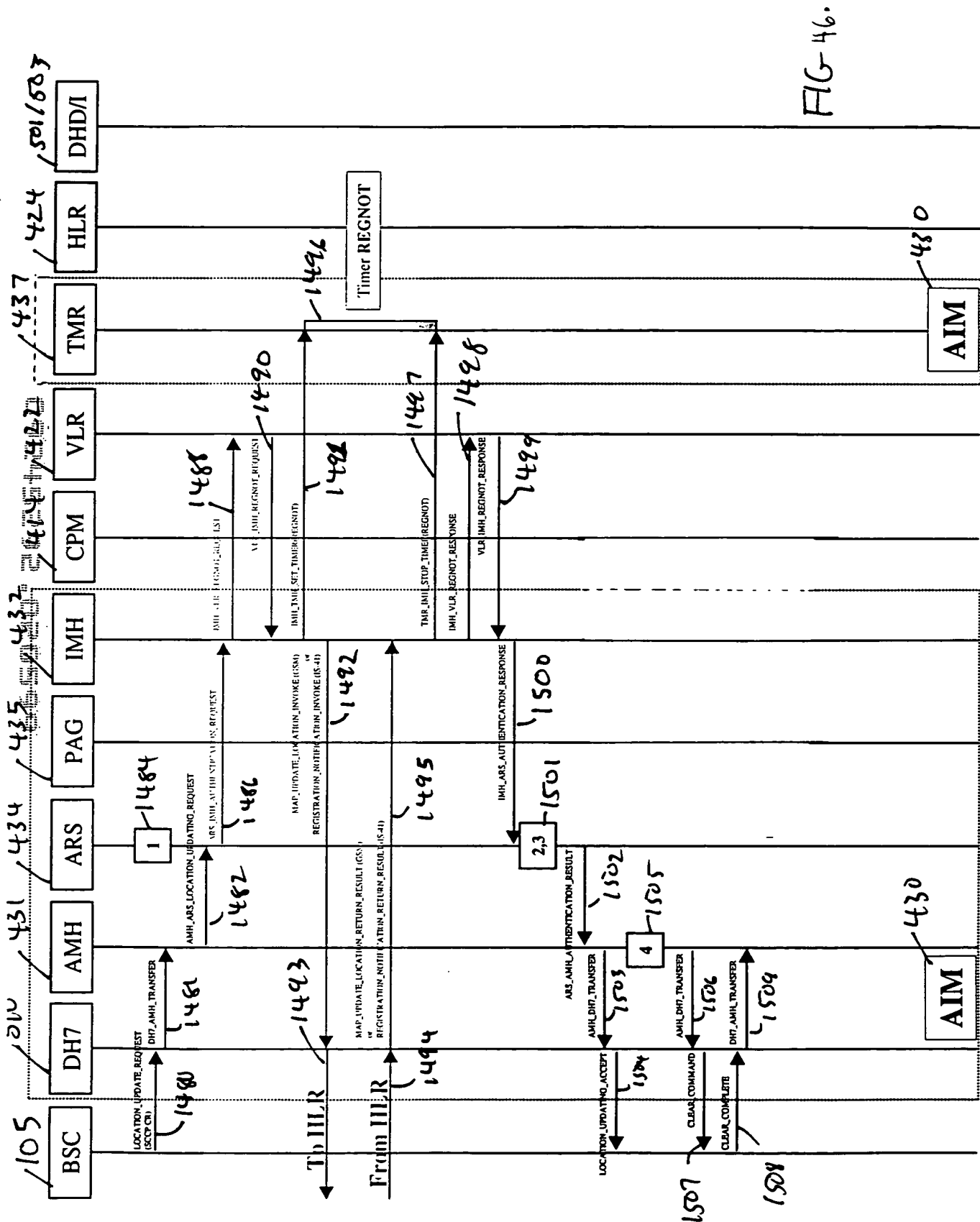
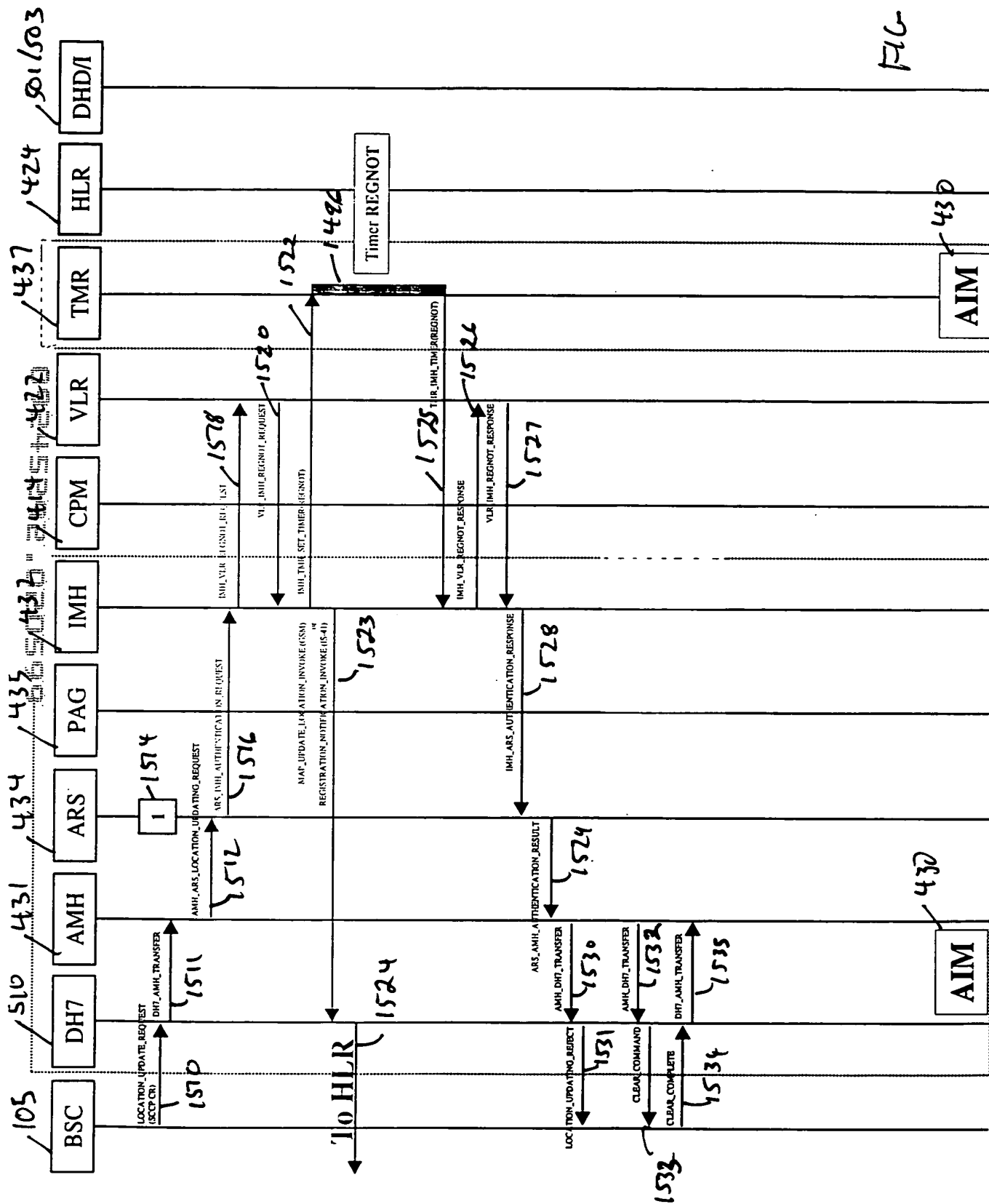


FIG-46.



PLC 47

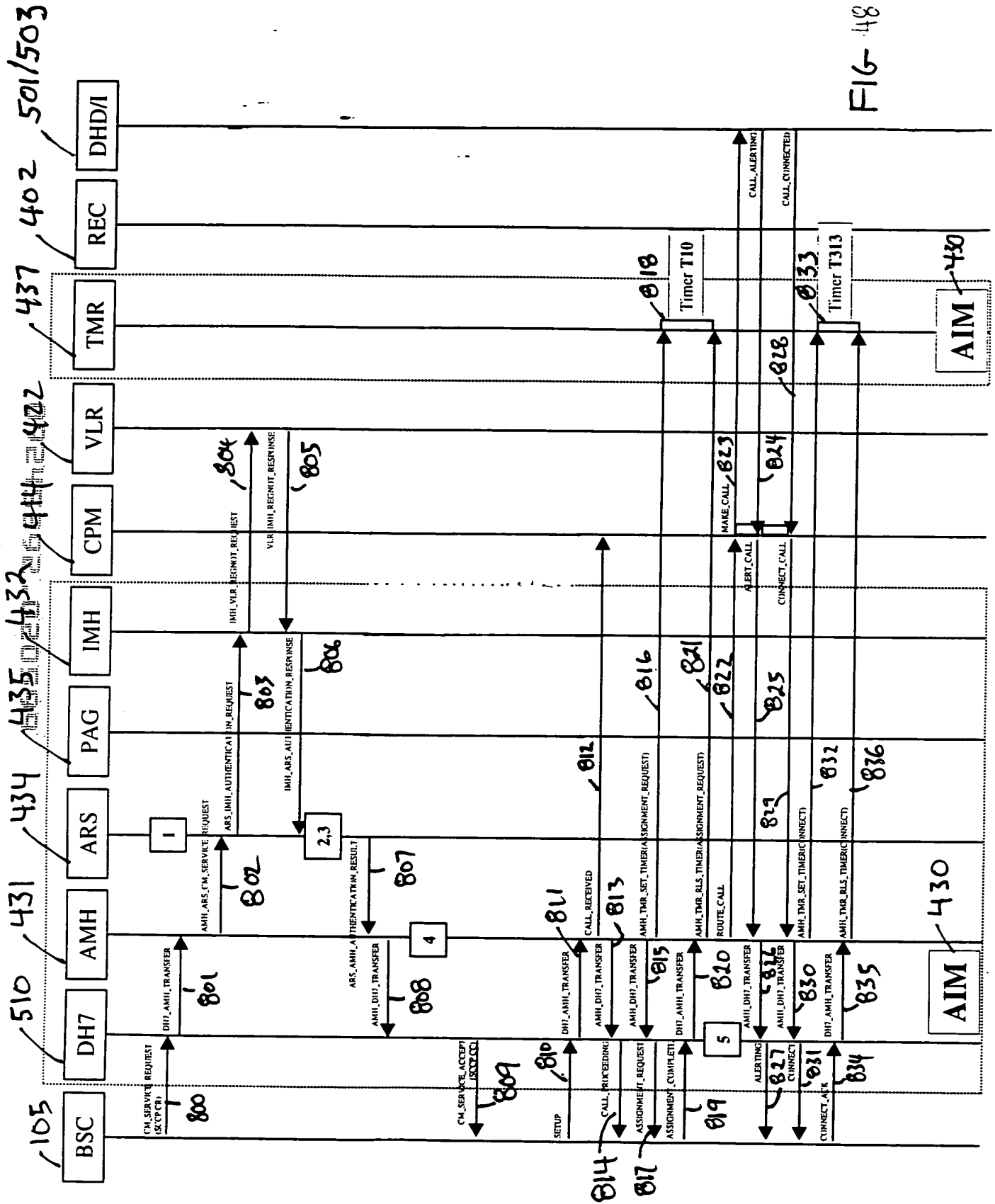


FIG-48

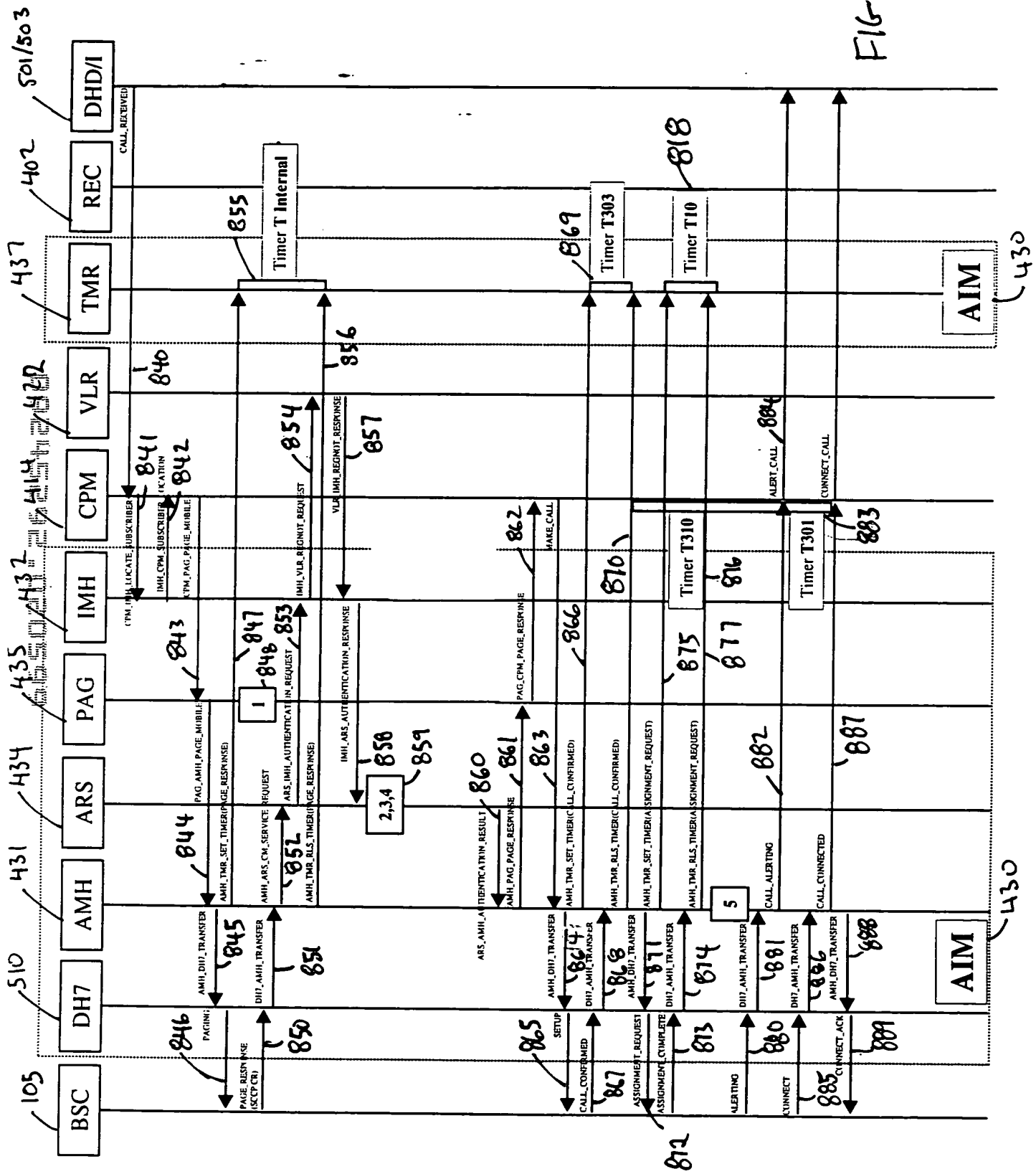


FIG 49

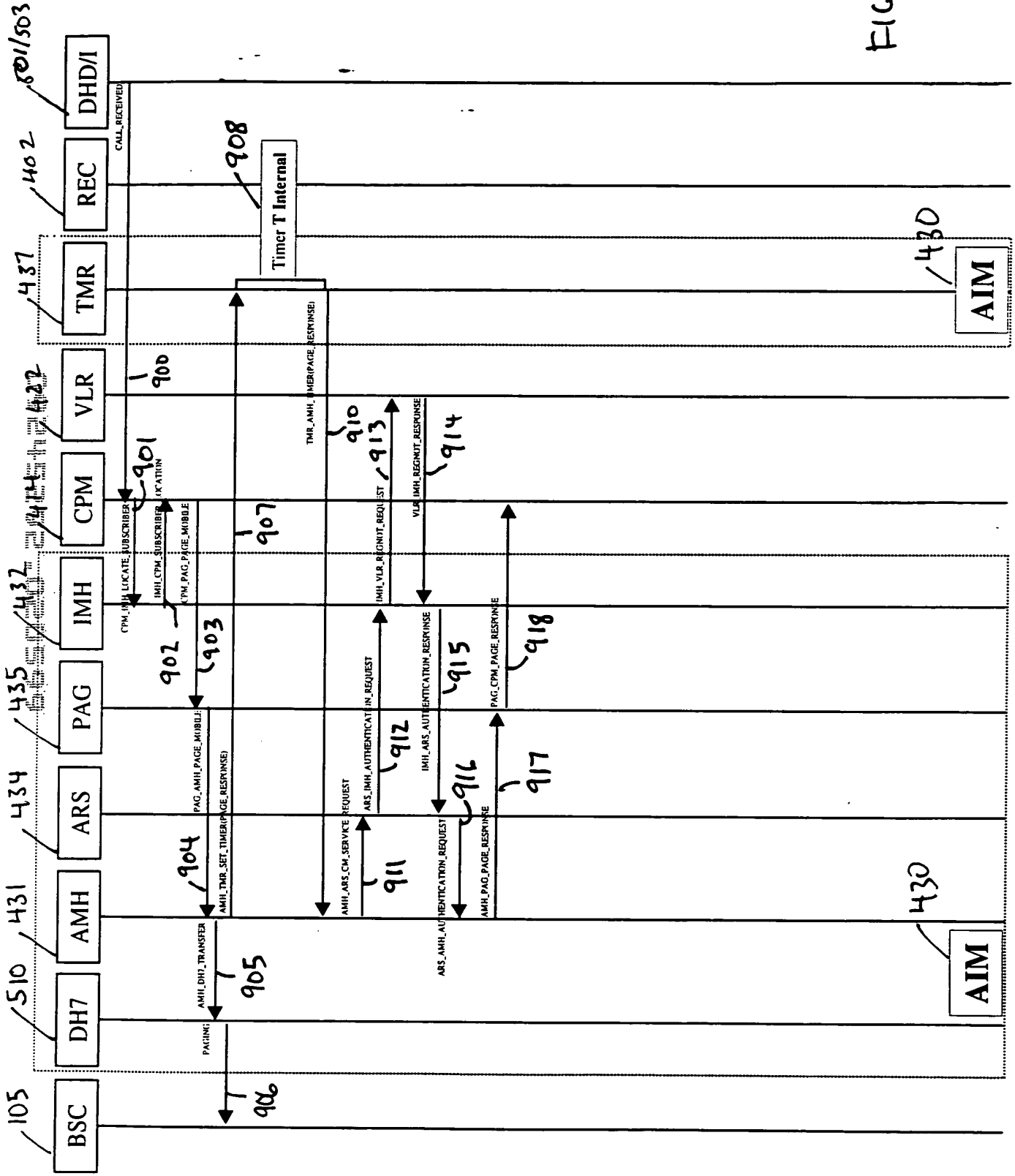
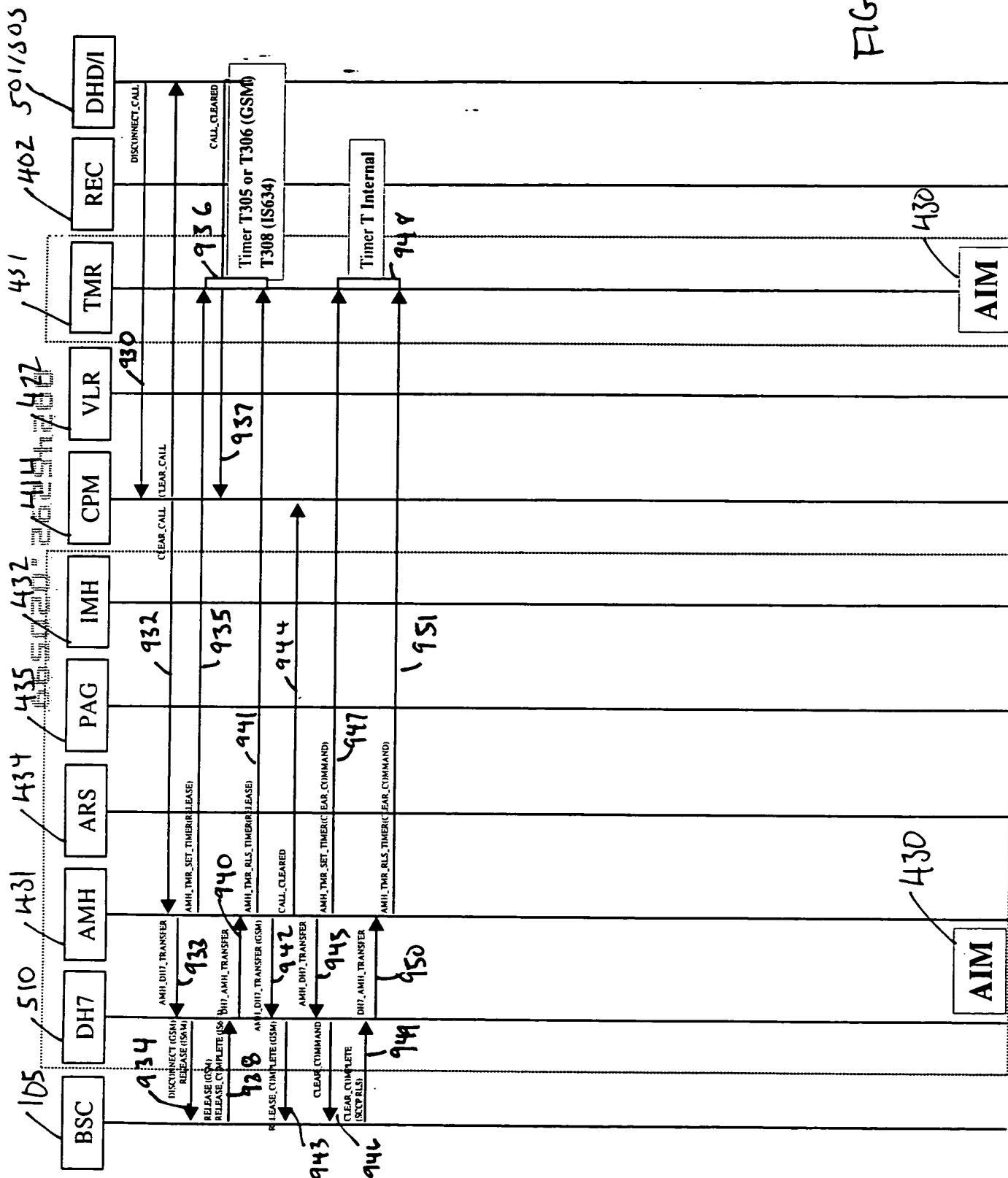
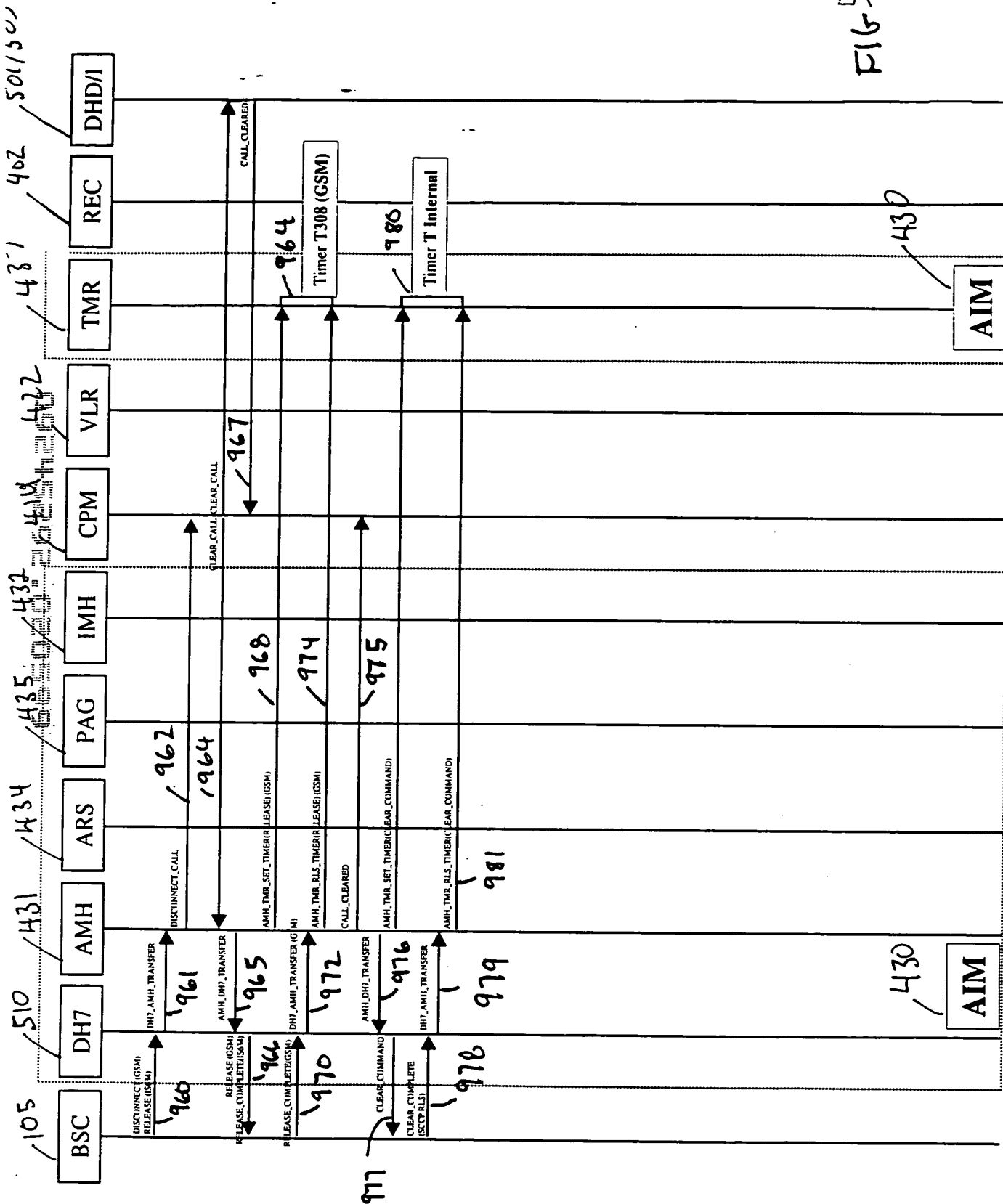
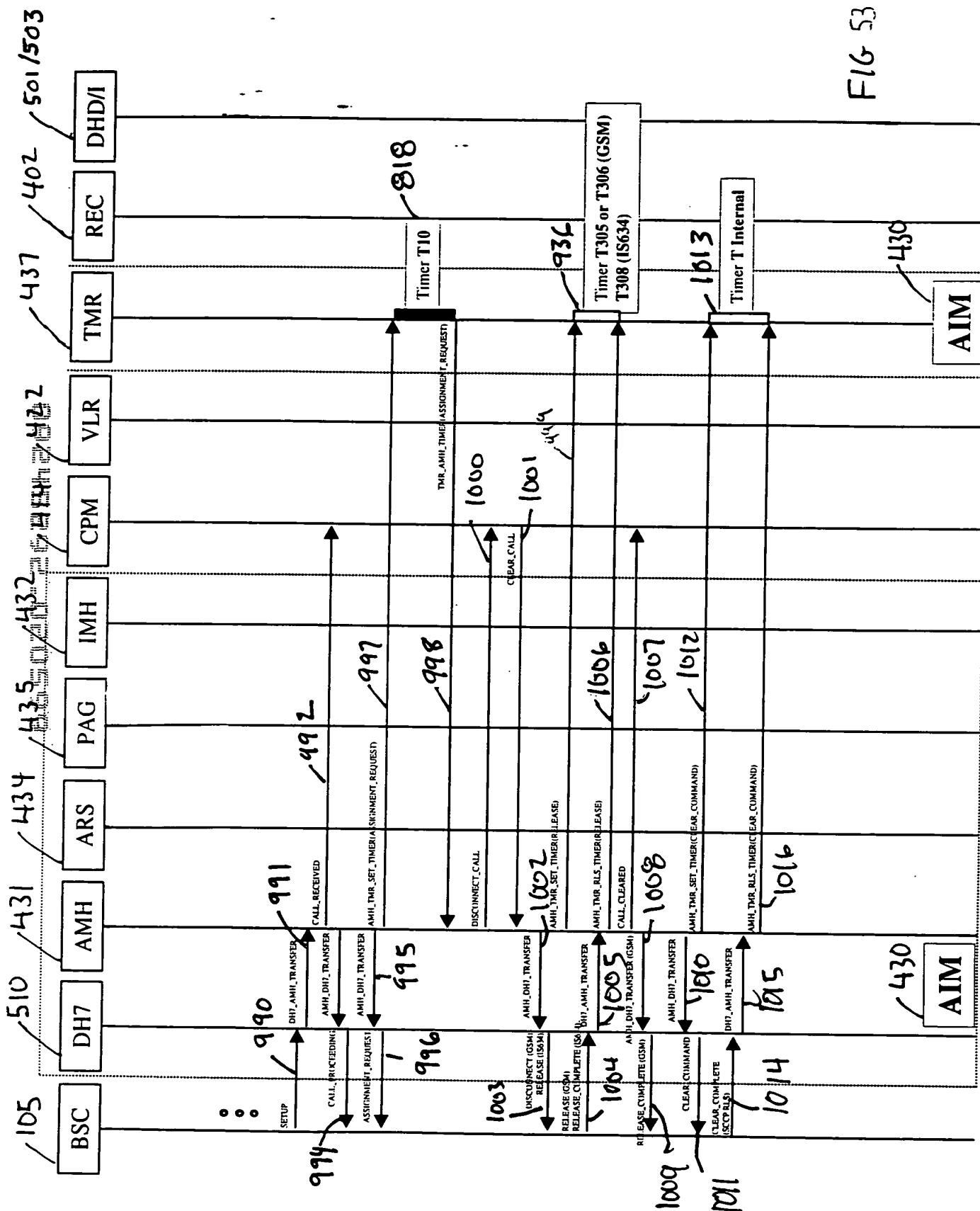


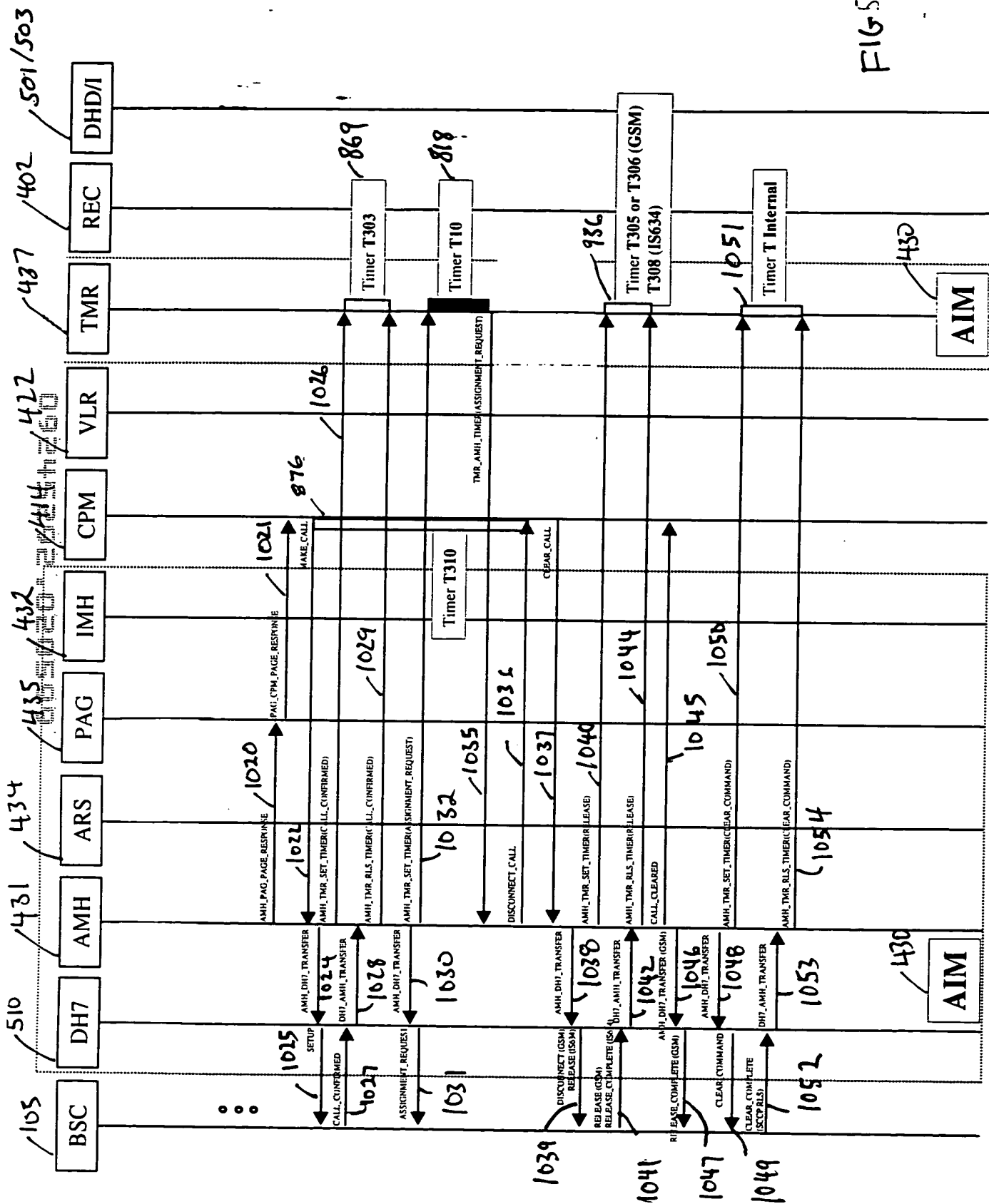
FIG-50



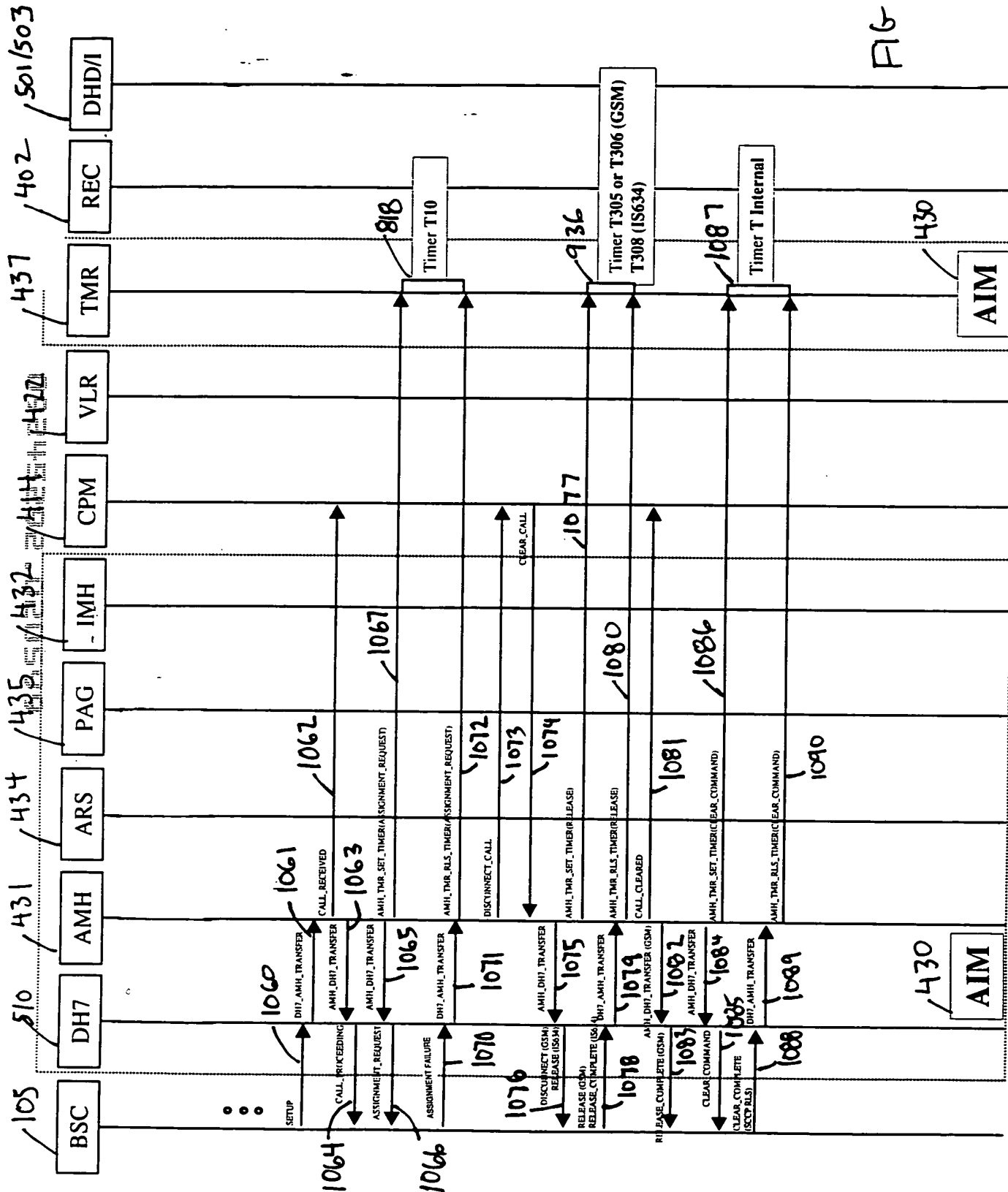




F16 53



F16541



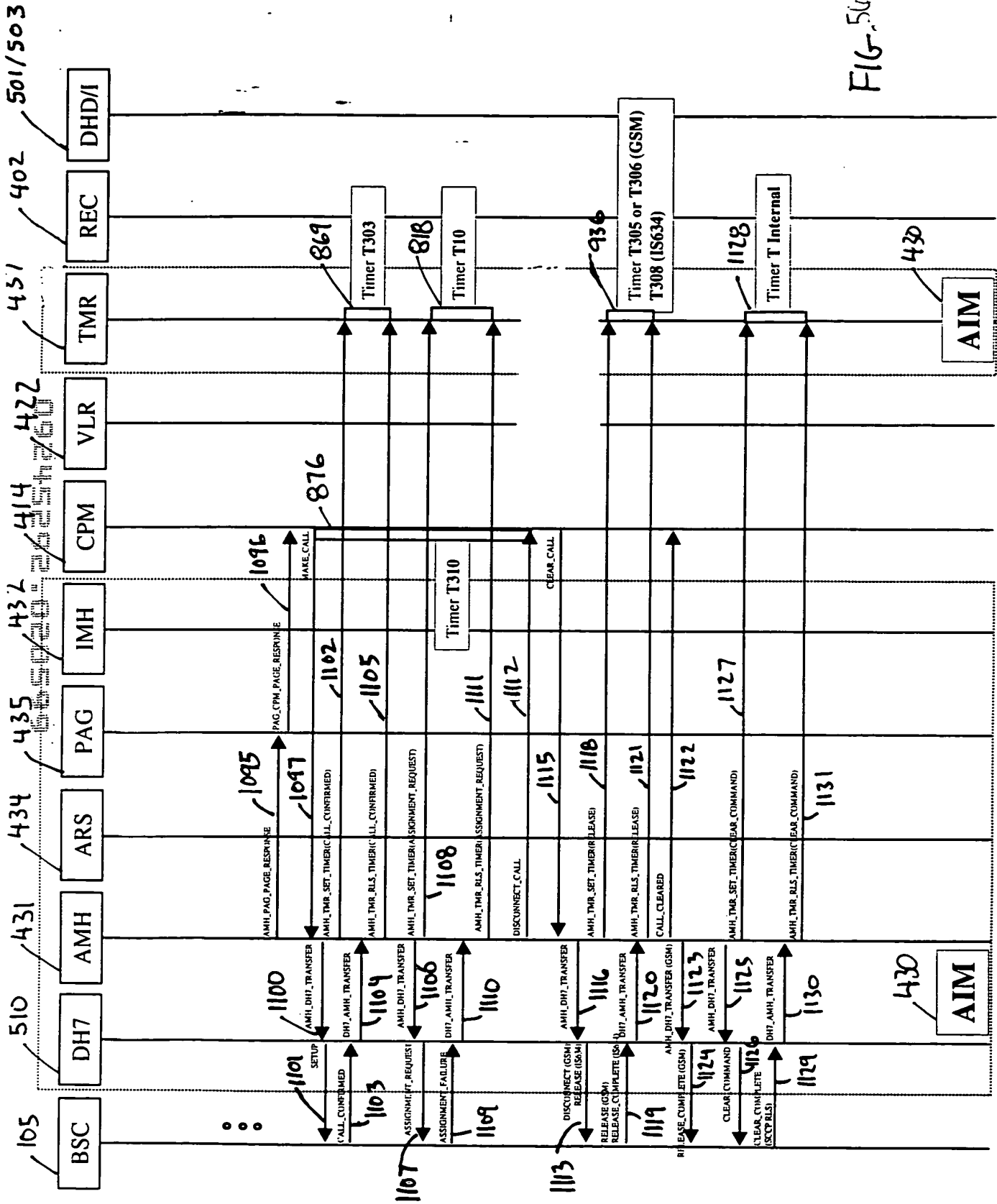


FIG. 50

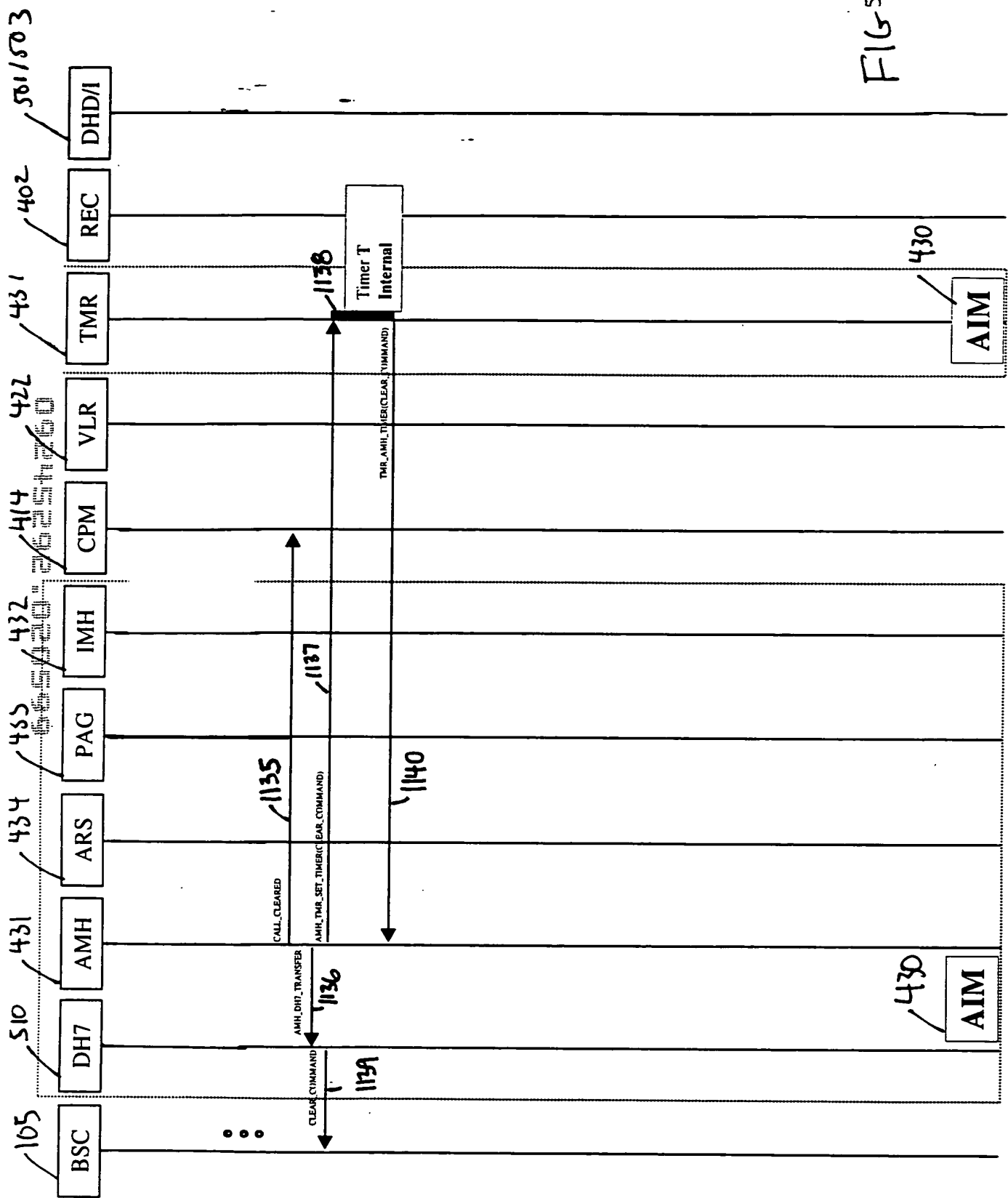


FIG 57

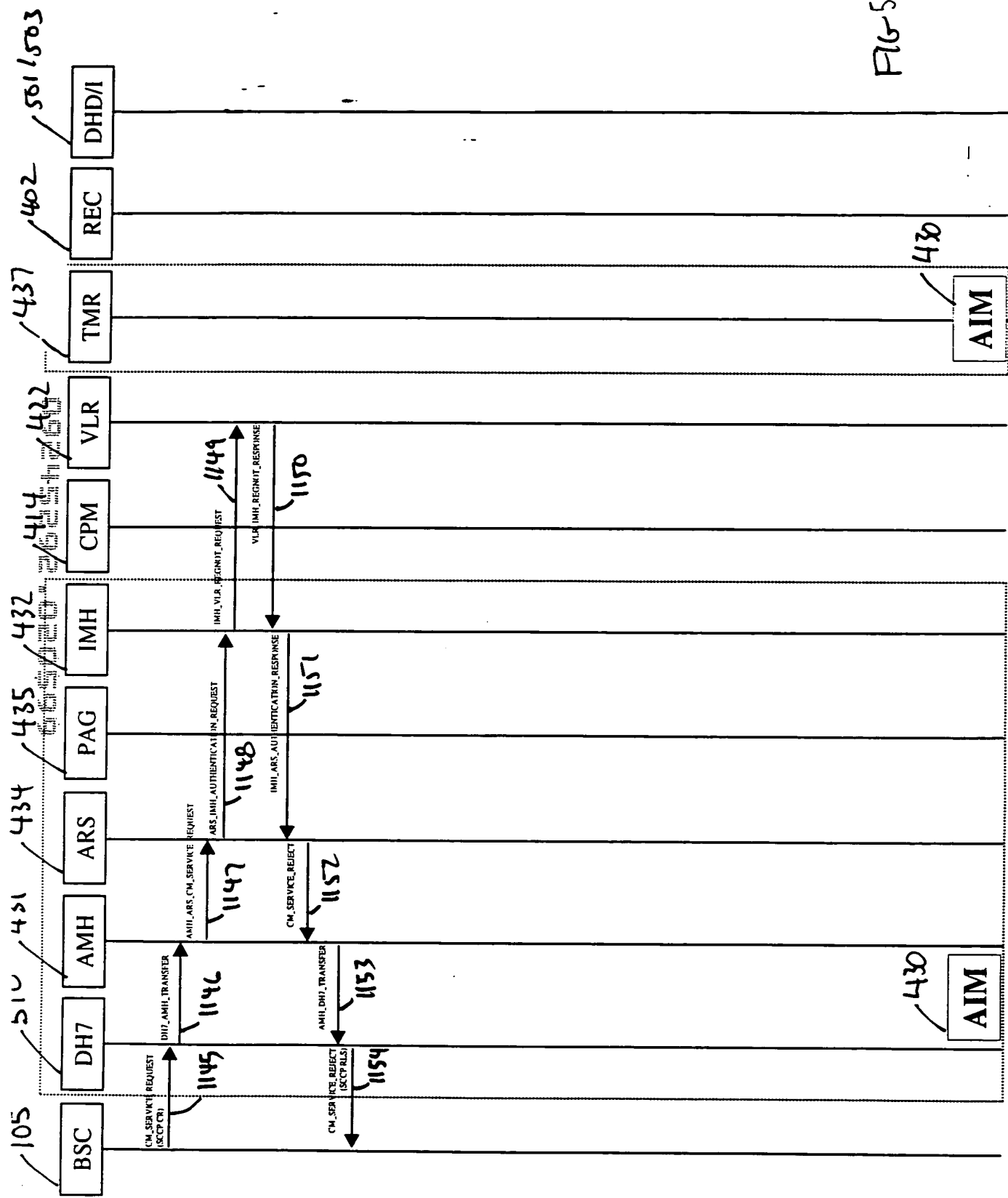
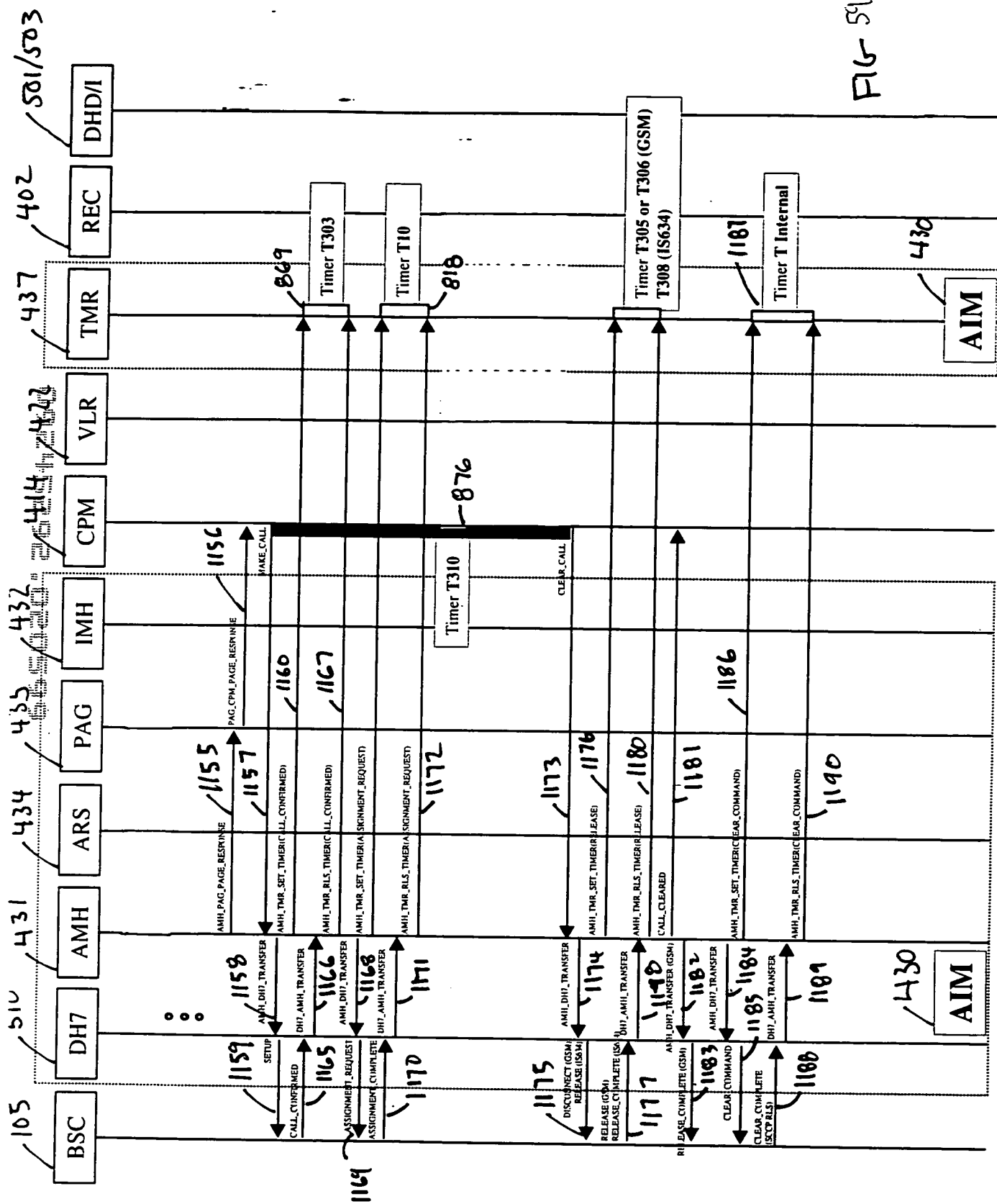


FIG-581



15-9151

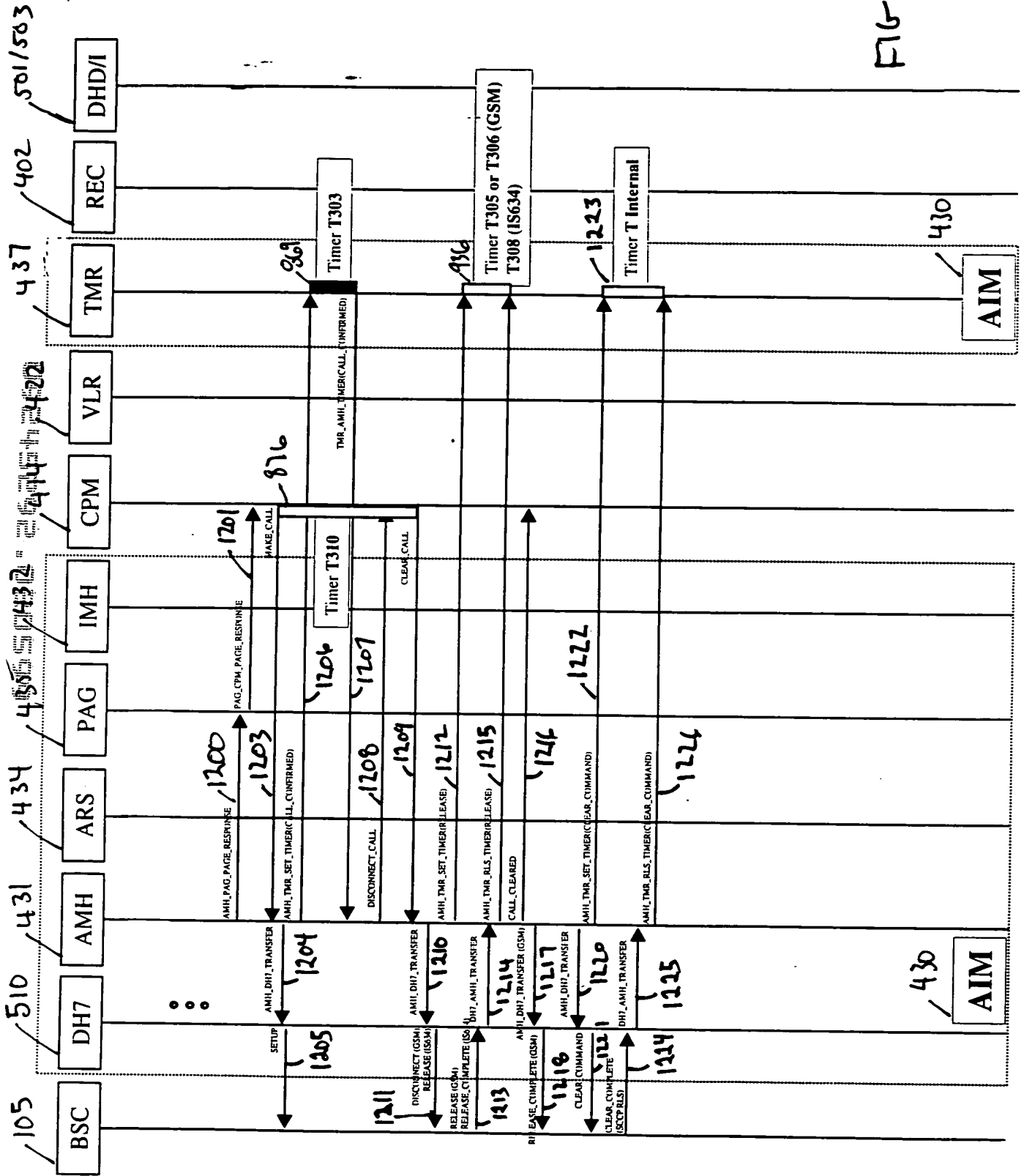
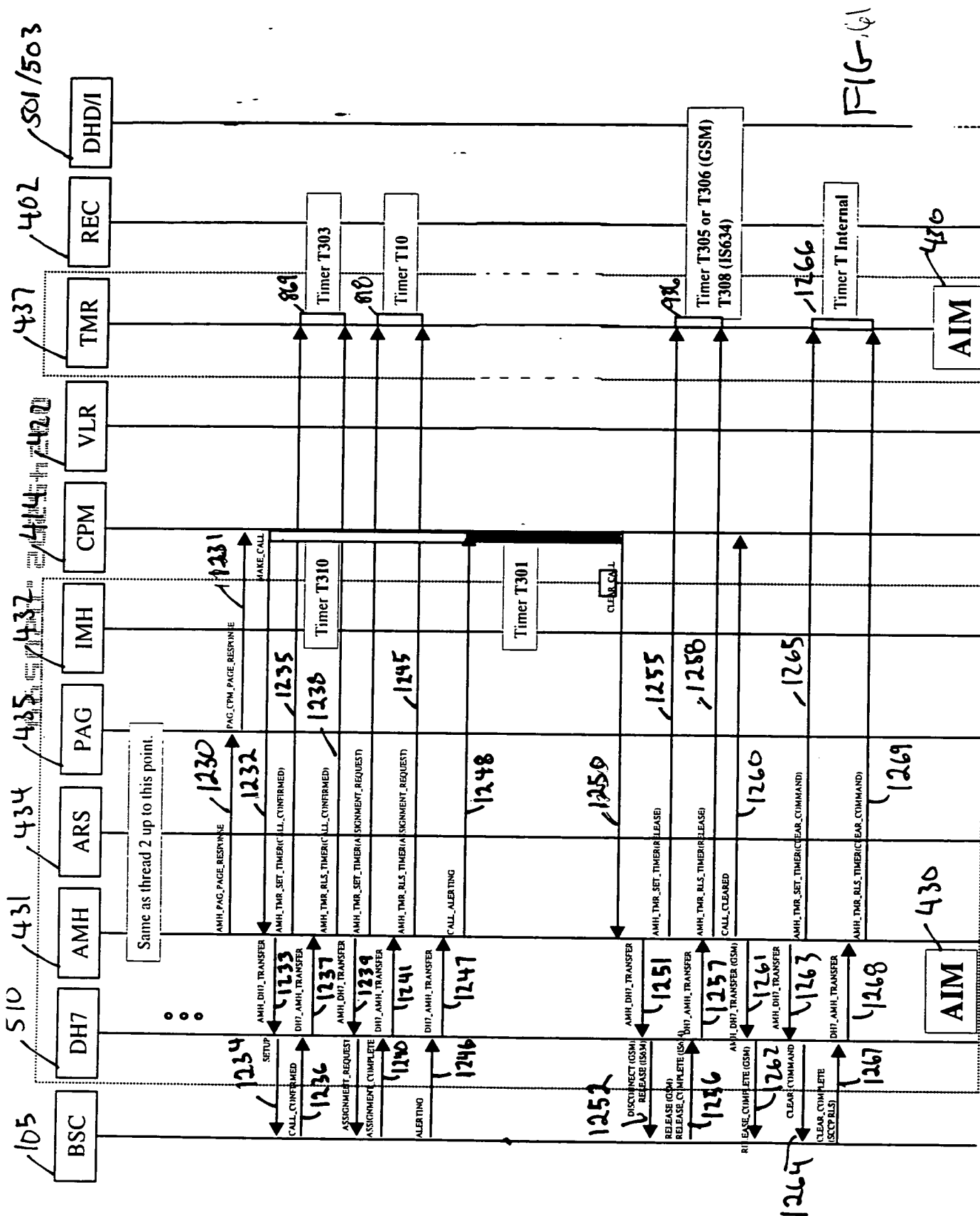


FIG 60



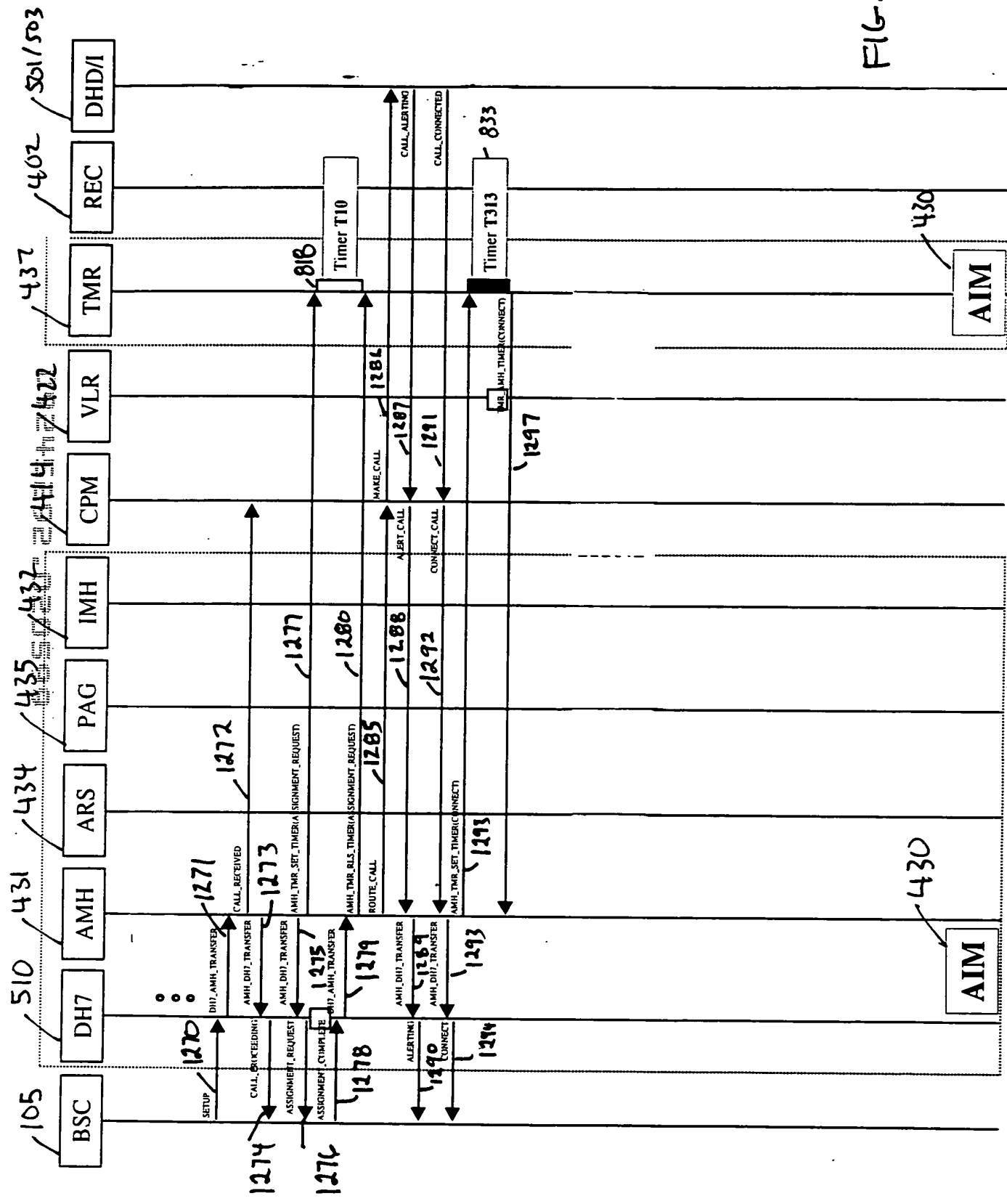


FIG-62

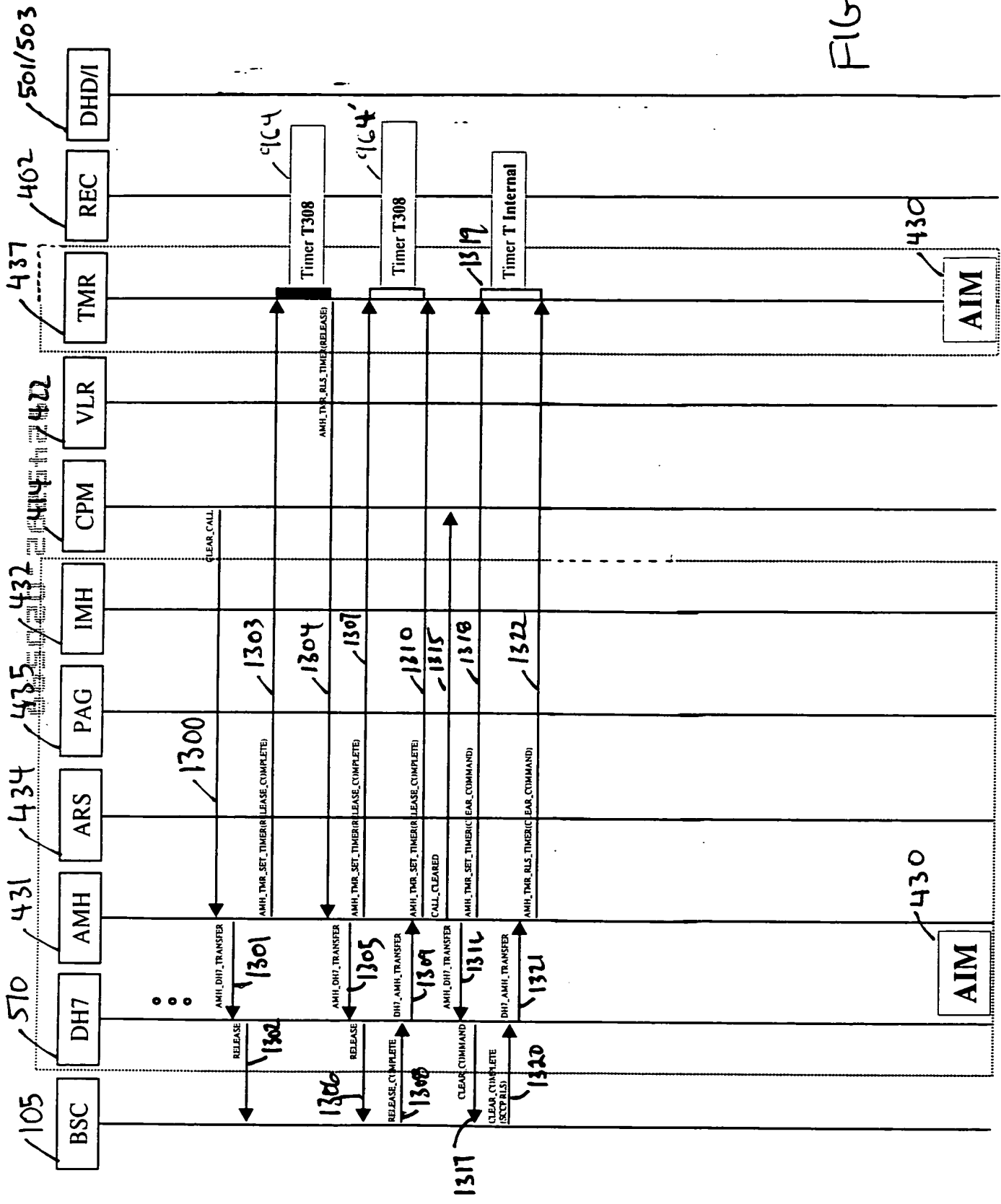
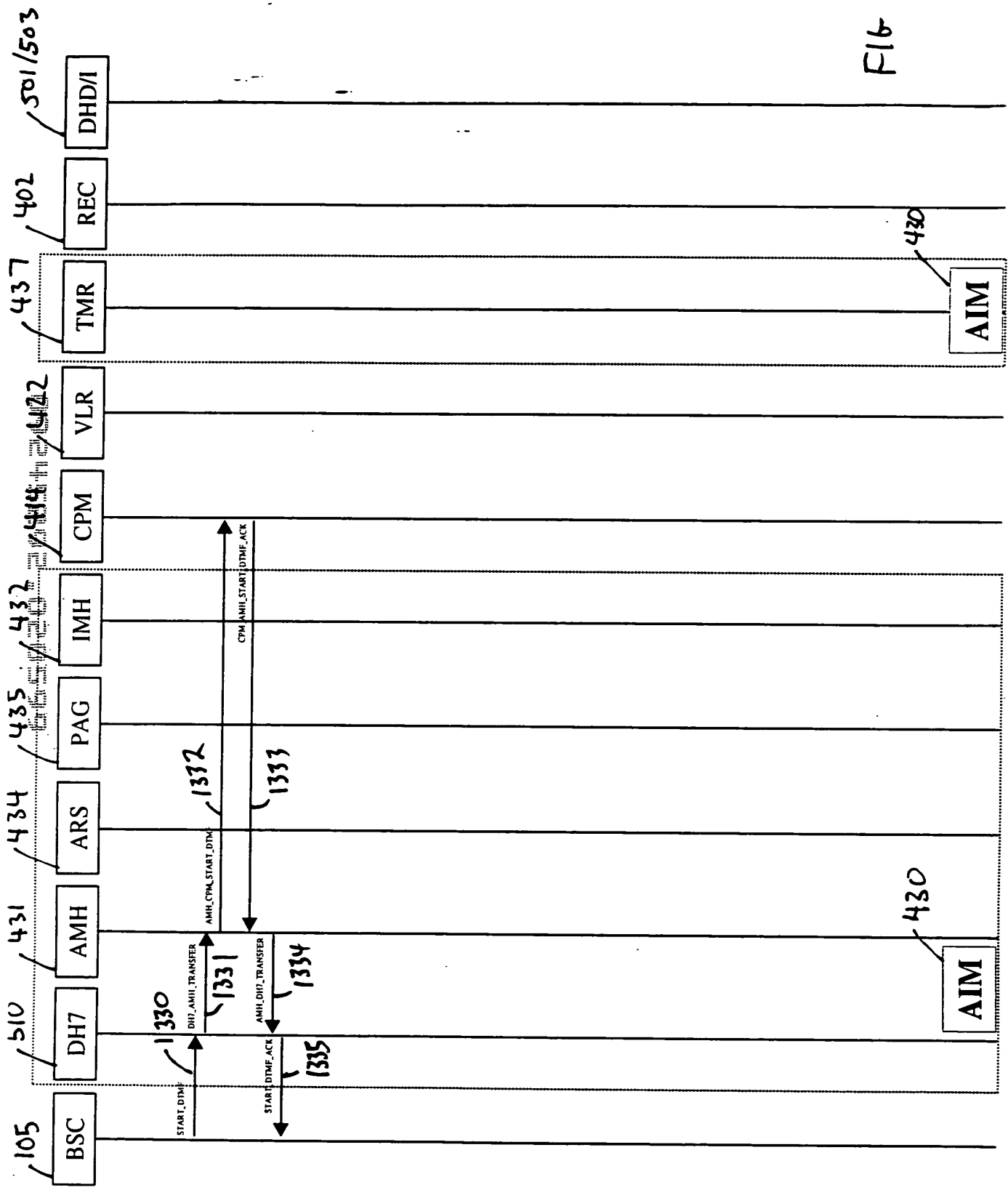
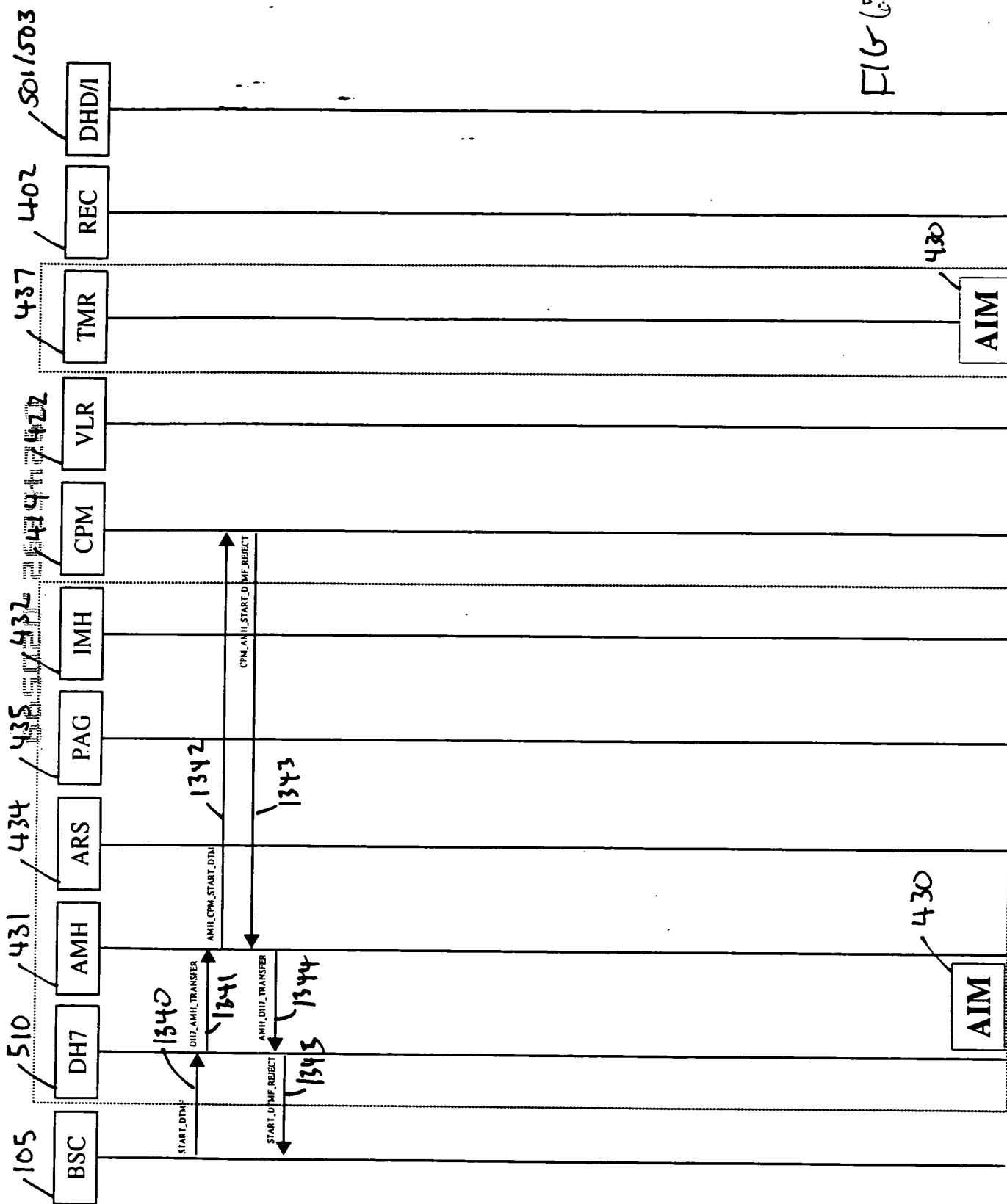


FIG-63



F16 (41)



157917

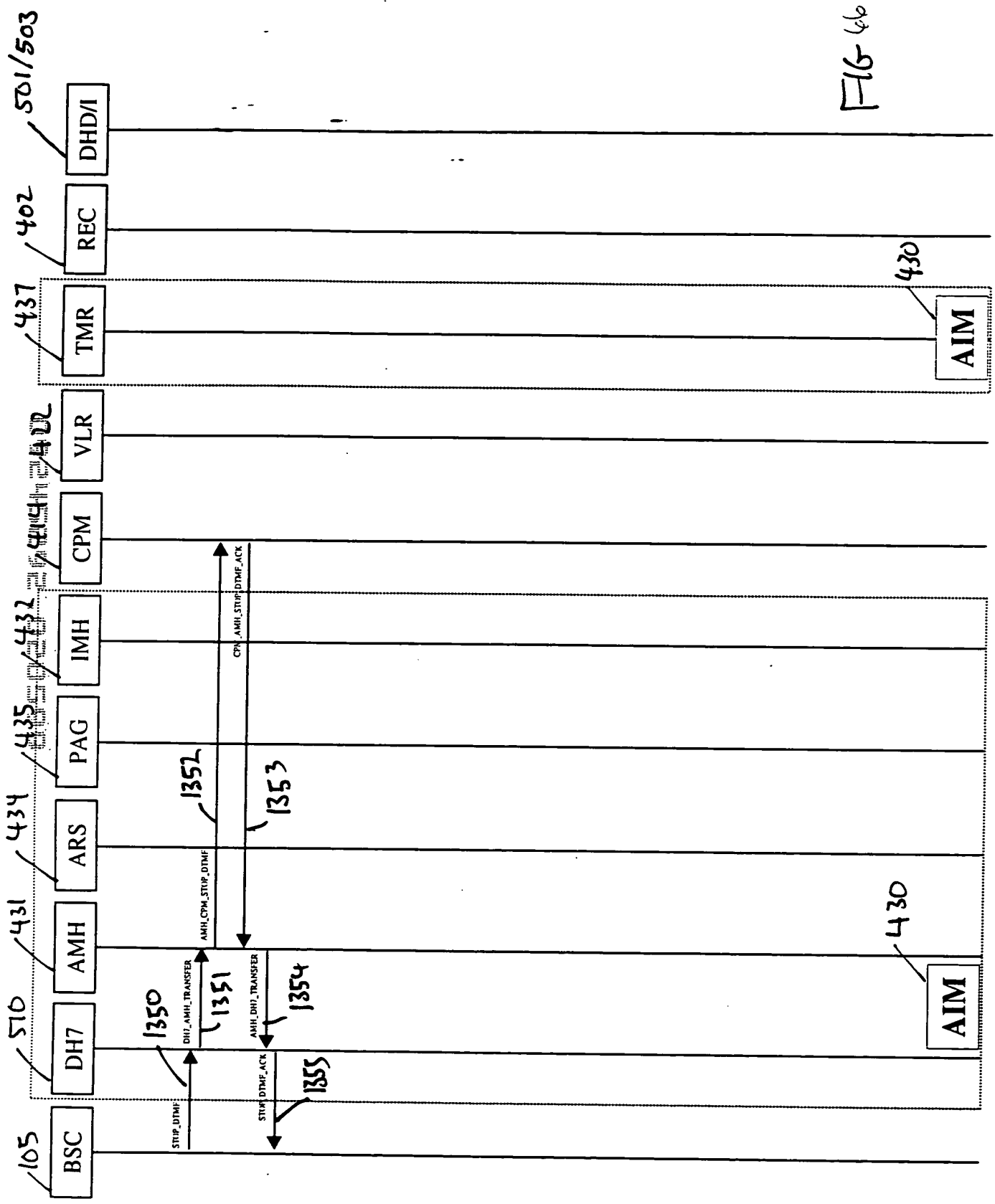


FIG 46

105 / 31 / 731 / 434 / 437 / 424 / 501 / 503

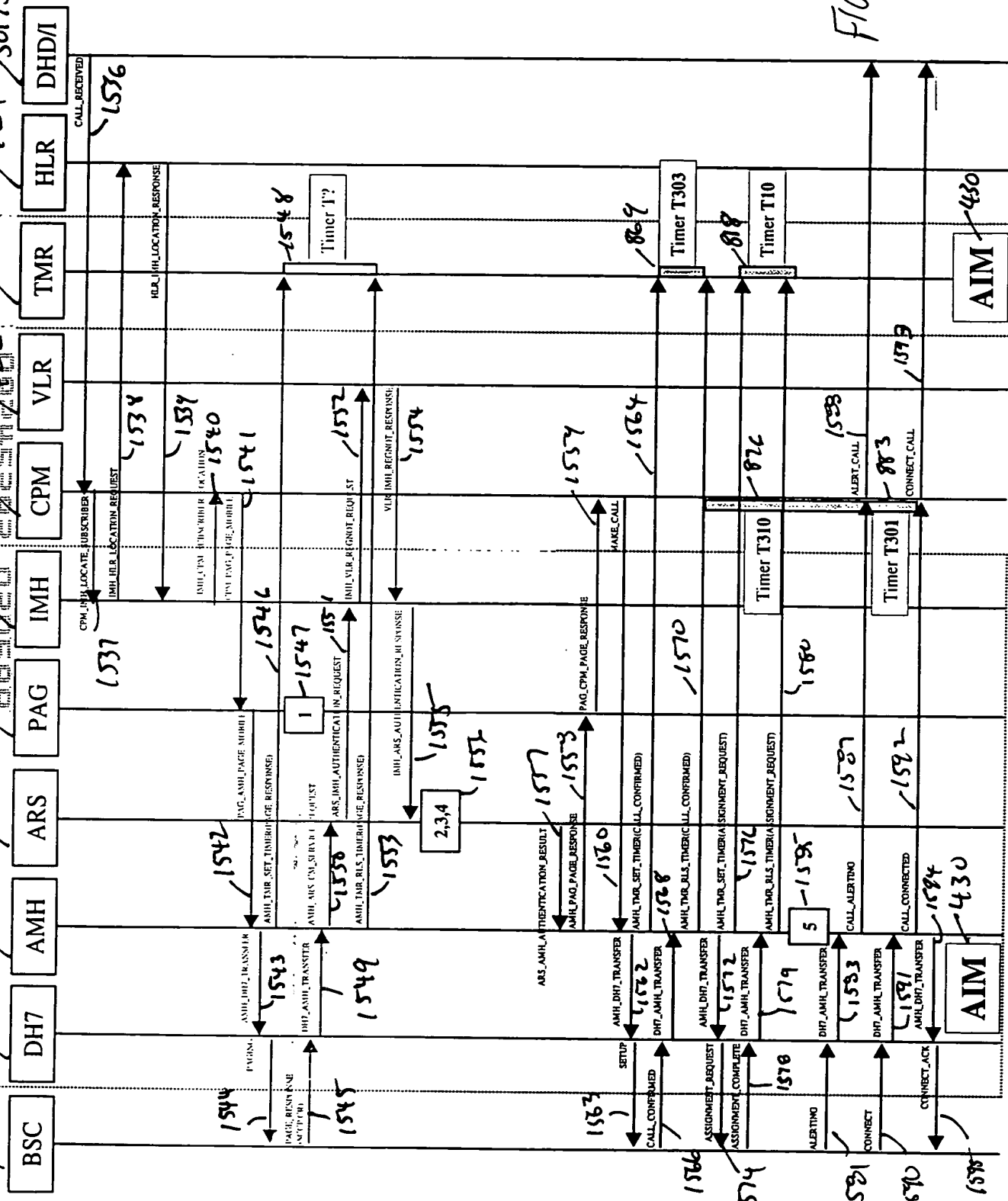
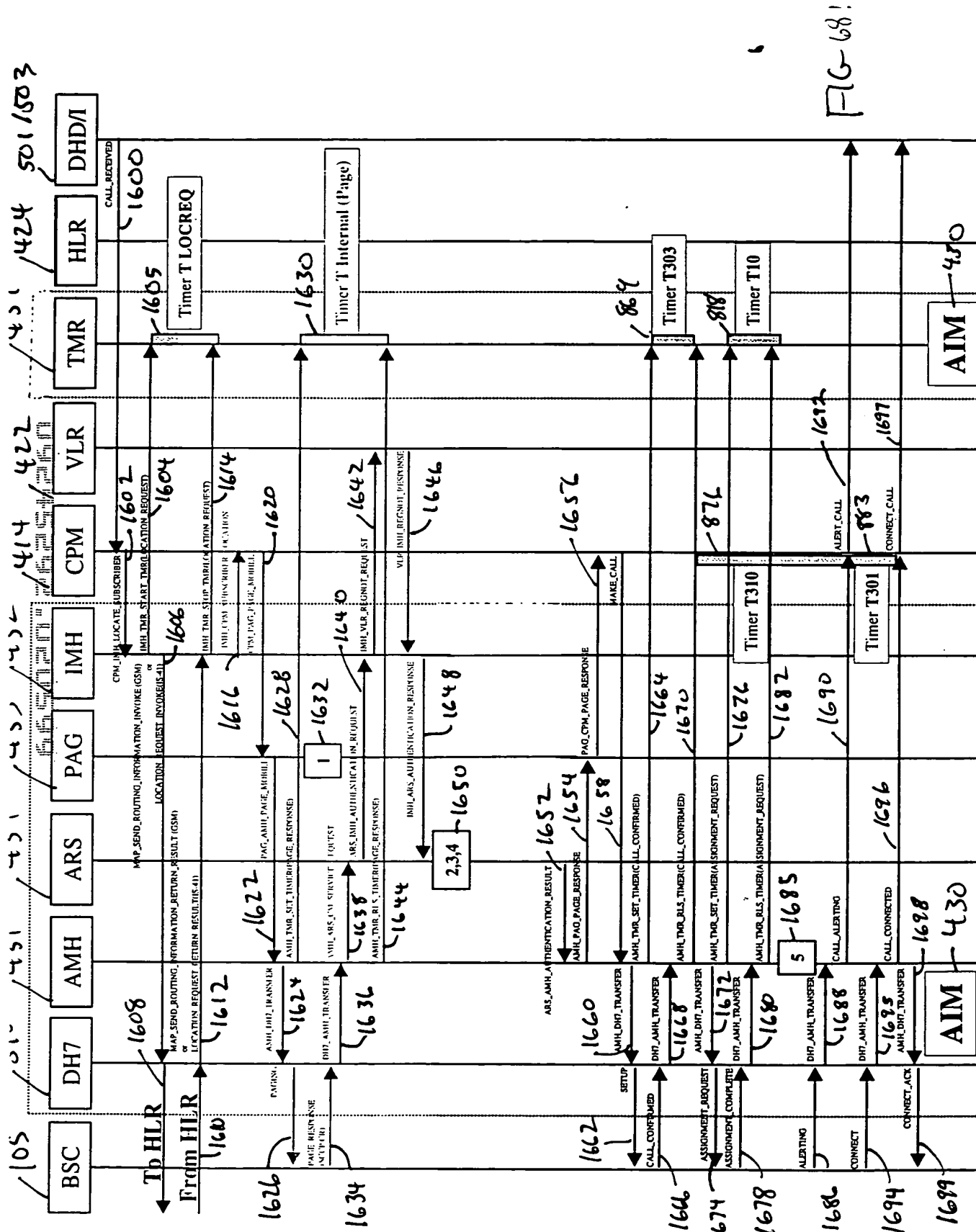


FIG 67



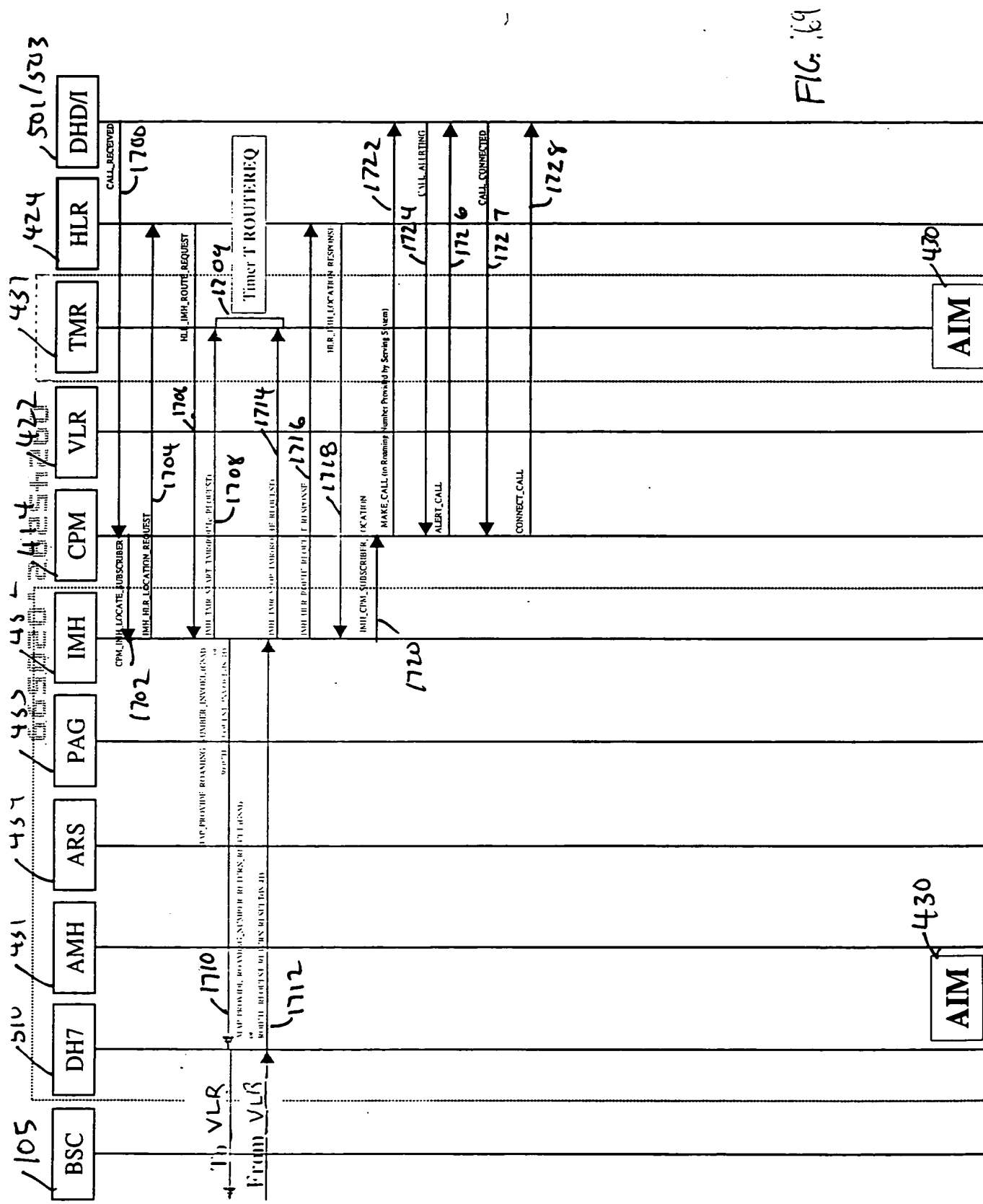


FIG. 69

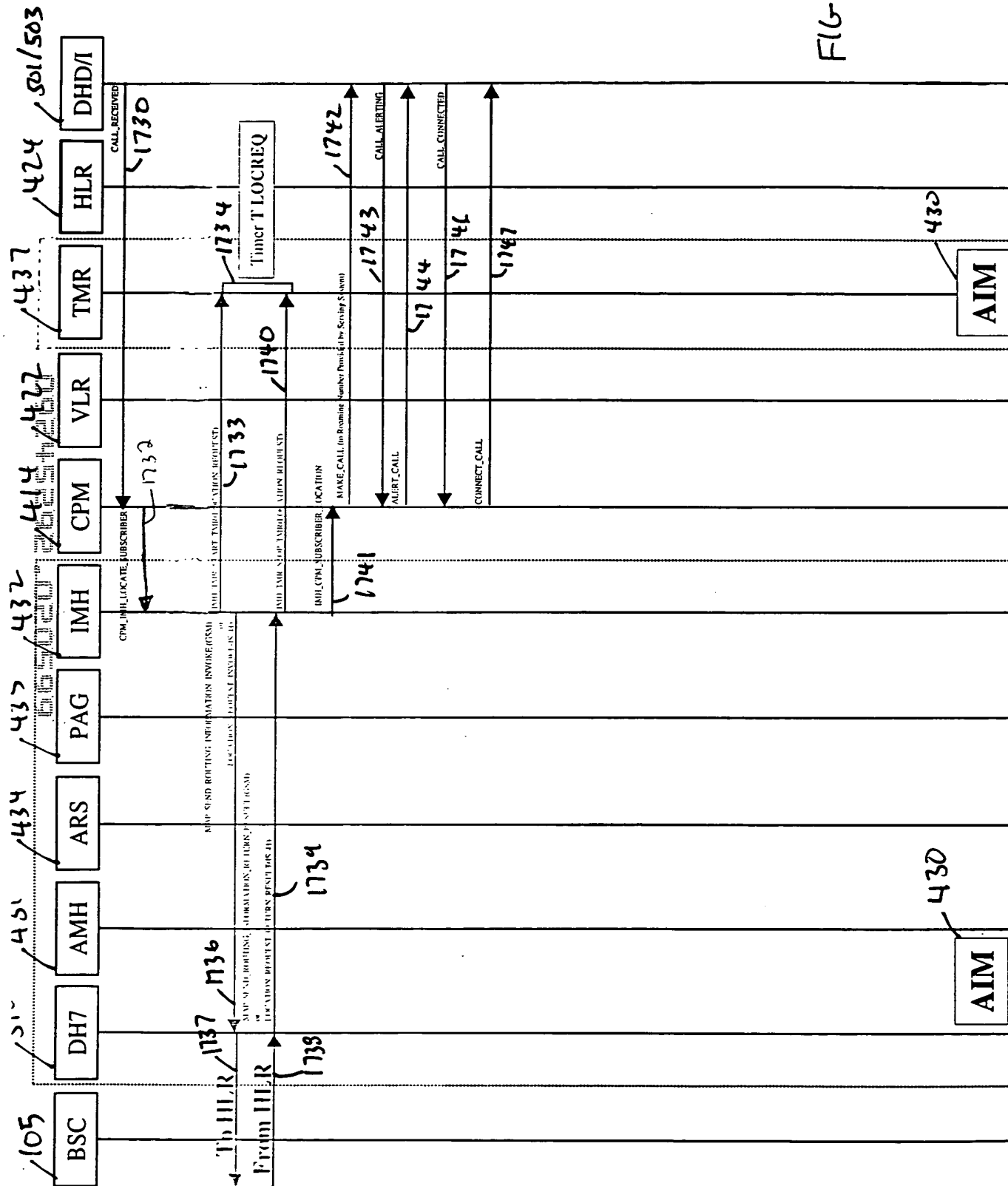


FIG 70

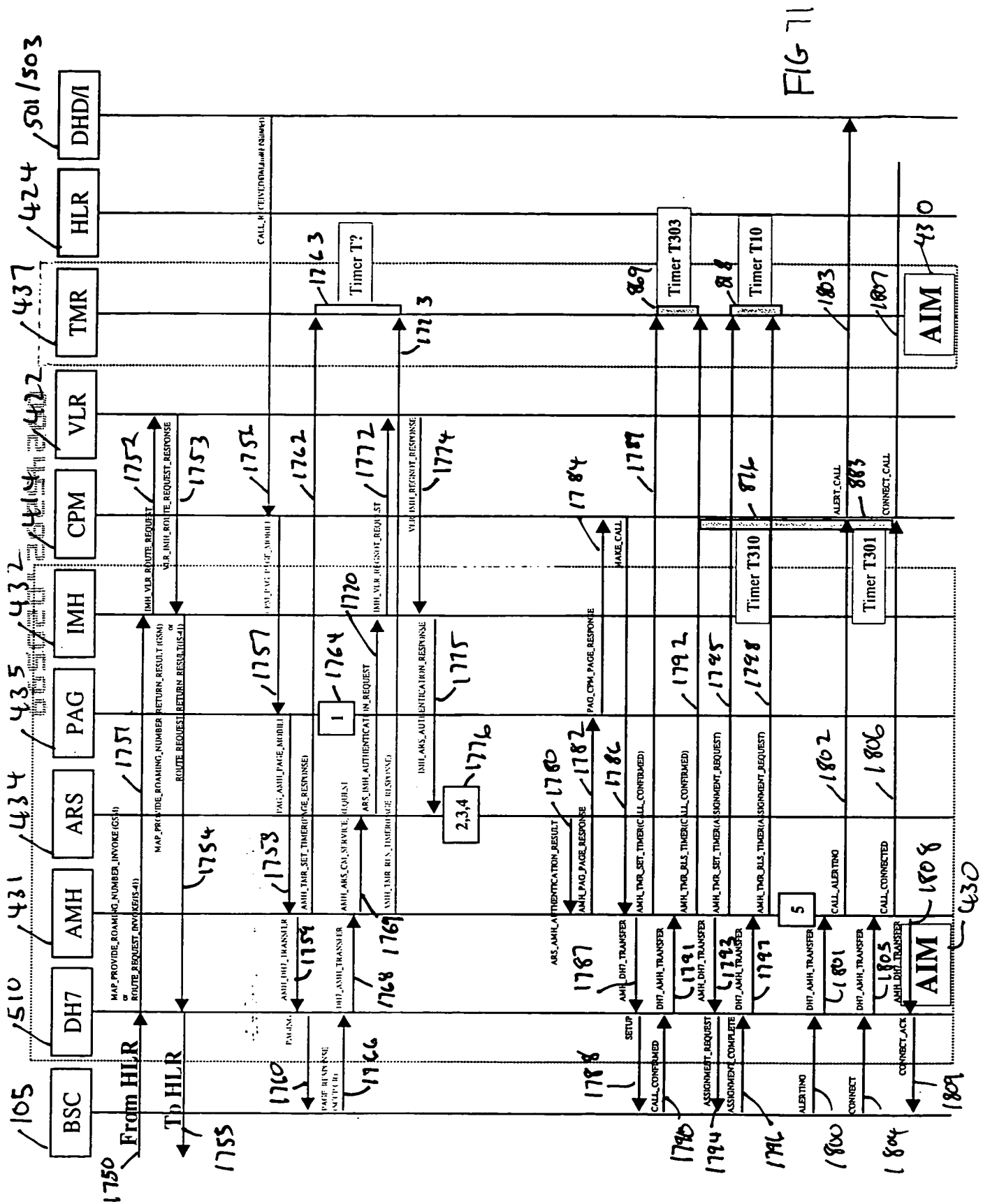


FIG 7.2

665020" 26254260

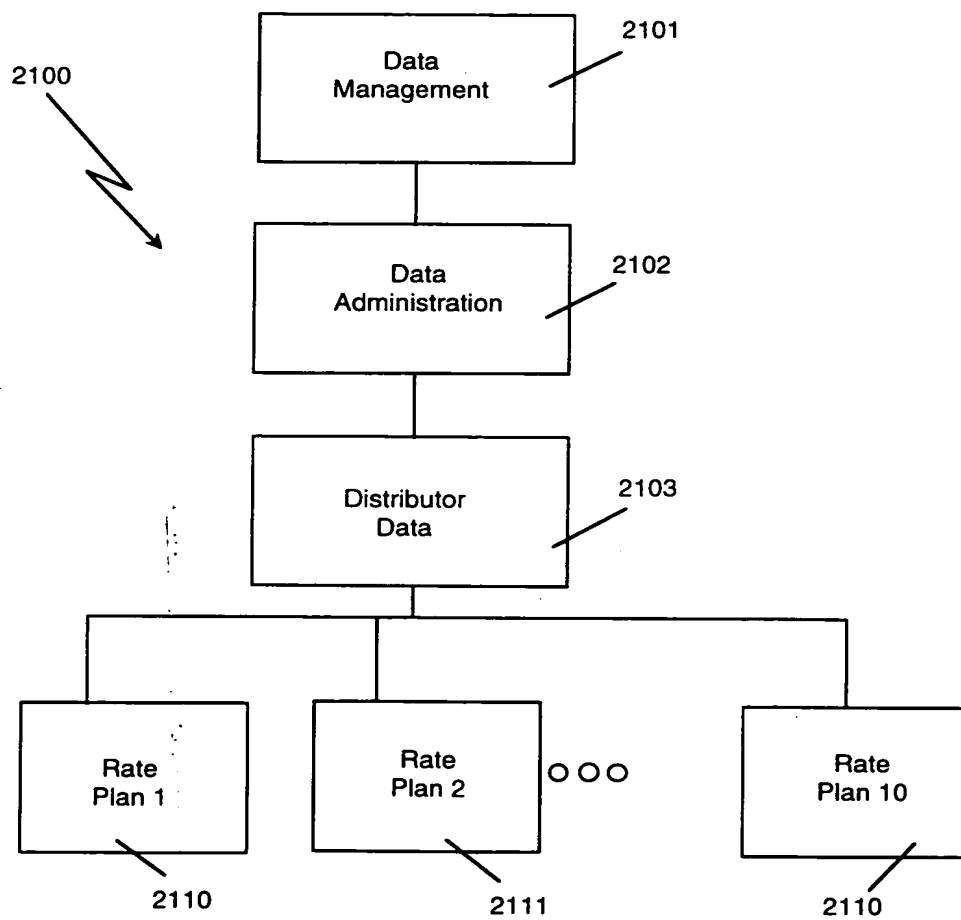


Fig. 73

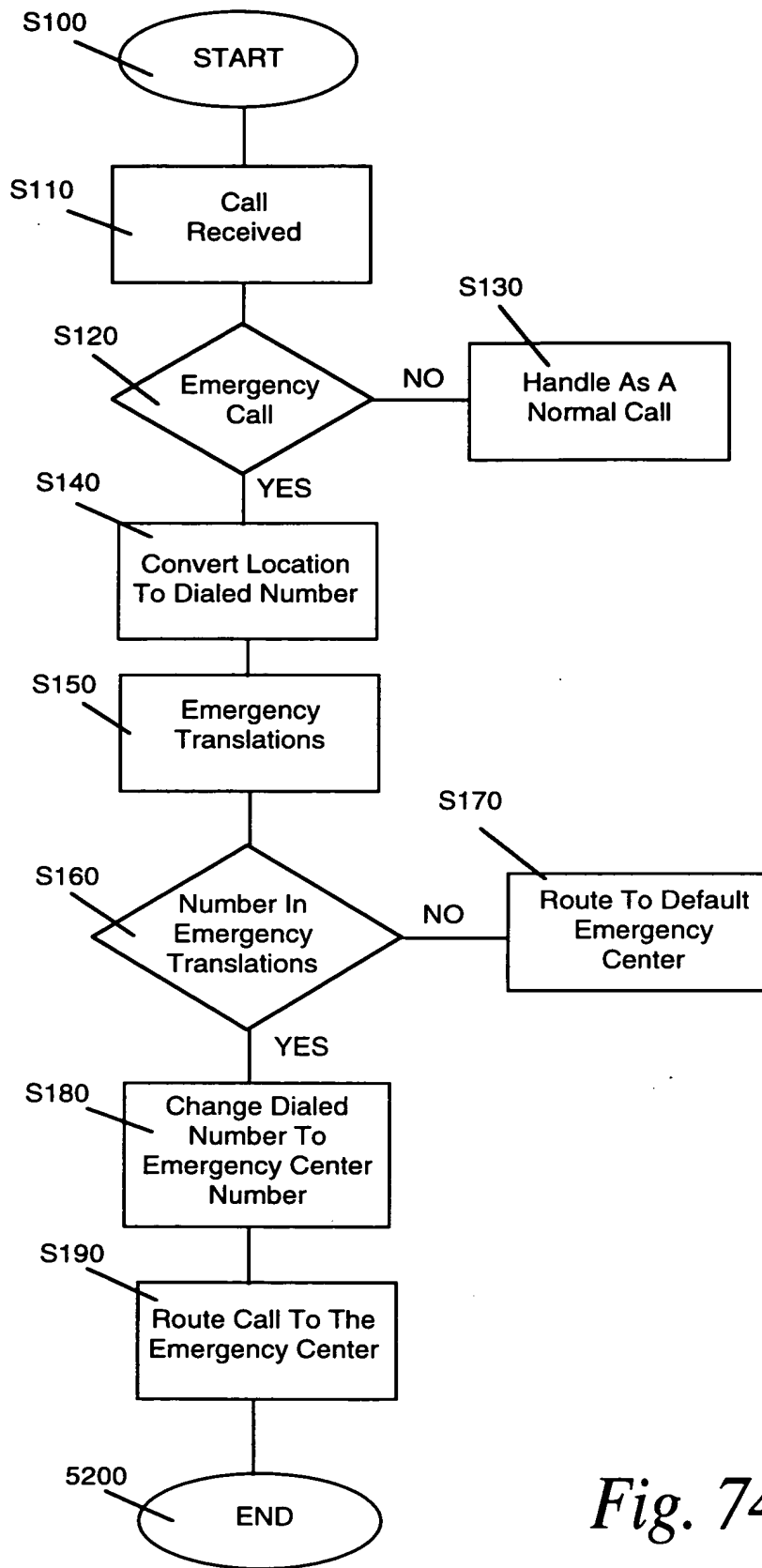


Fig. 74

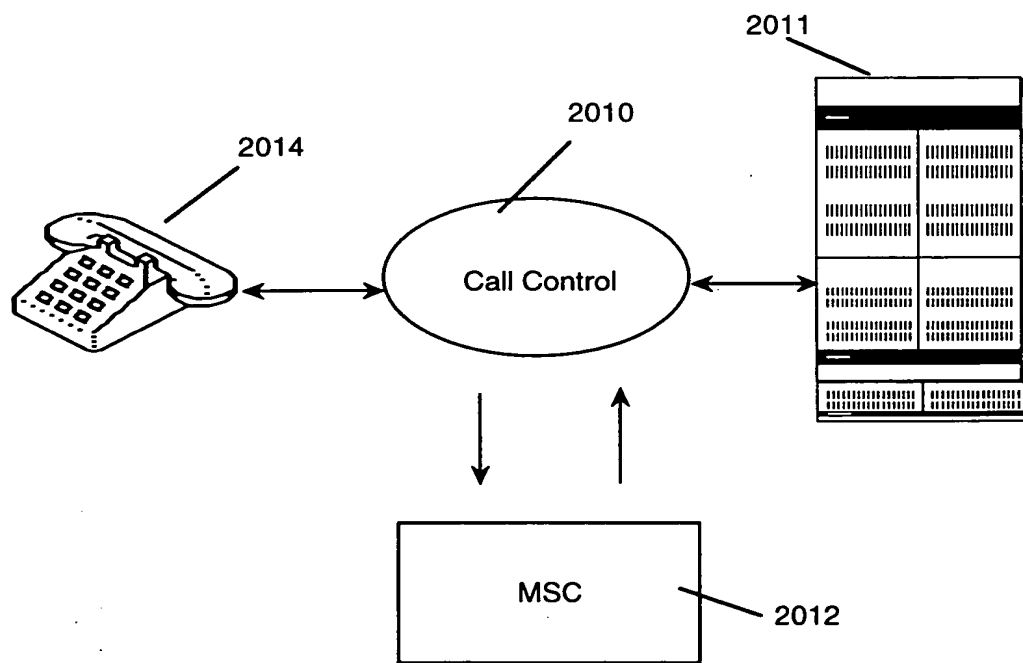


Fig. 75

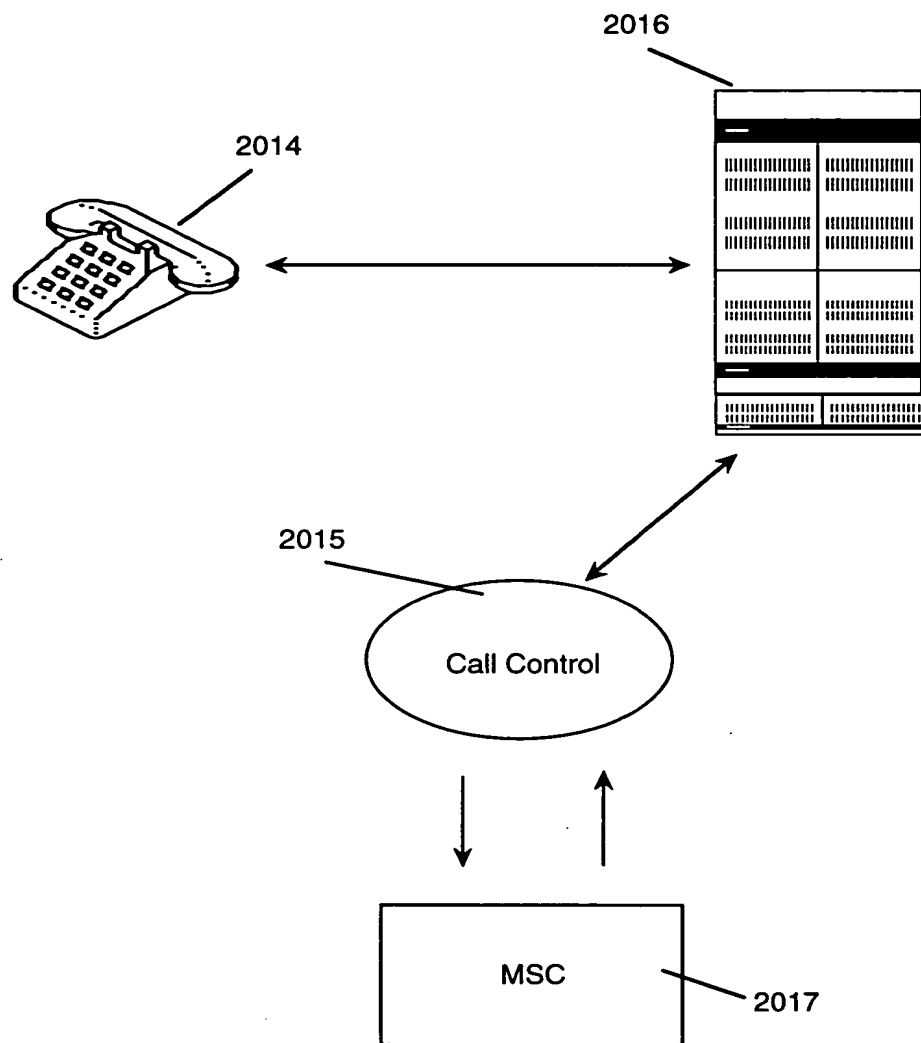


Fig. 76

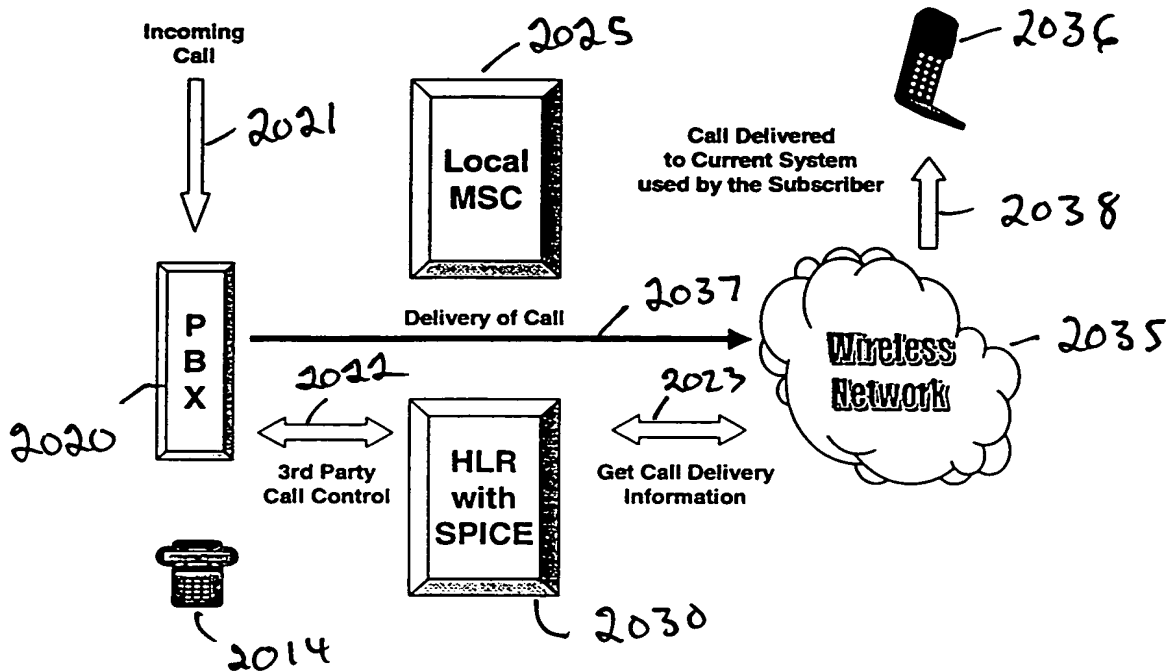


FIG 77

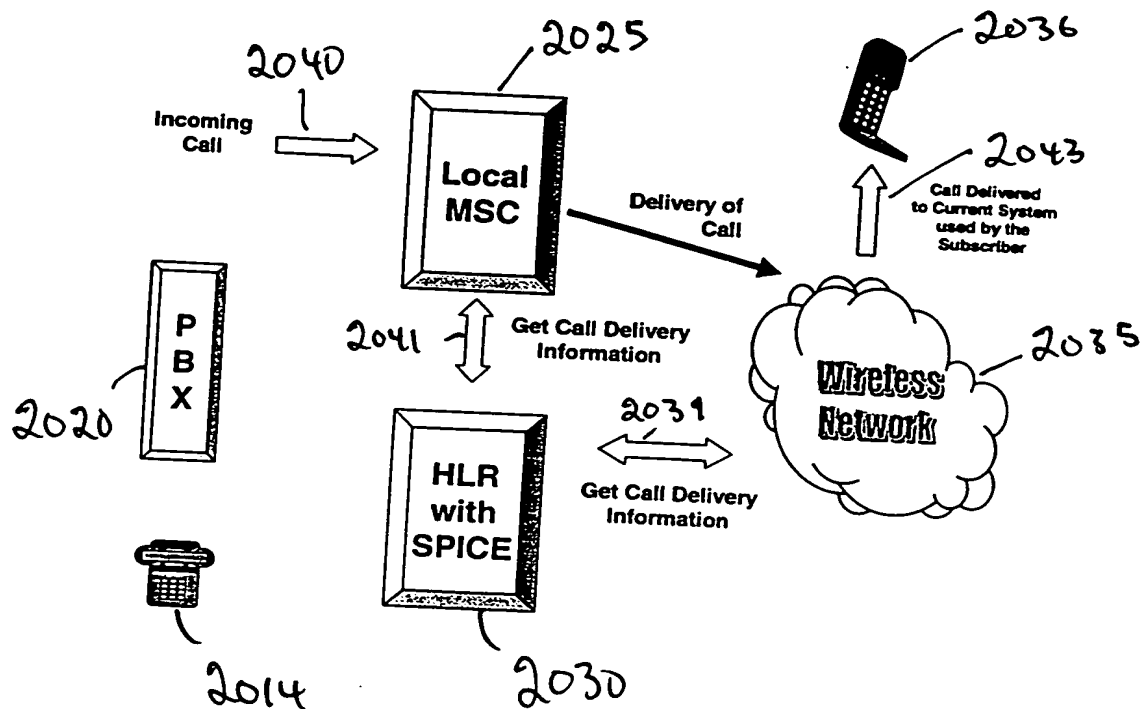


FIG 78

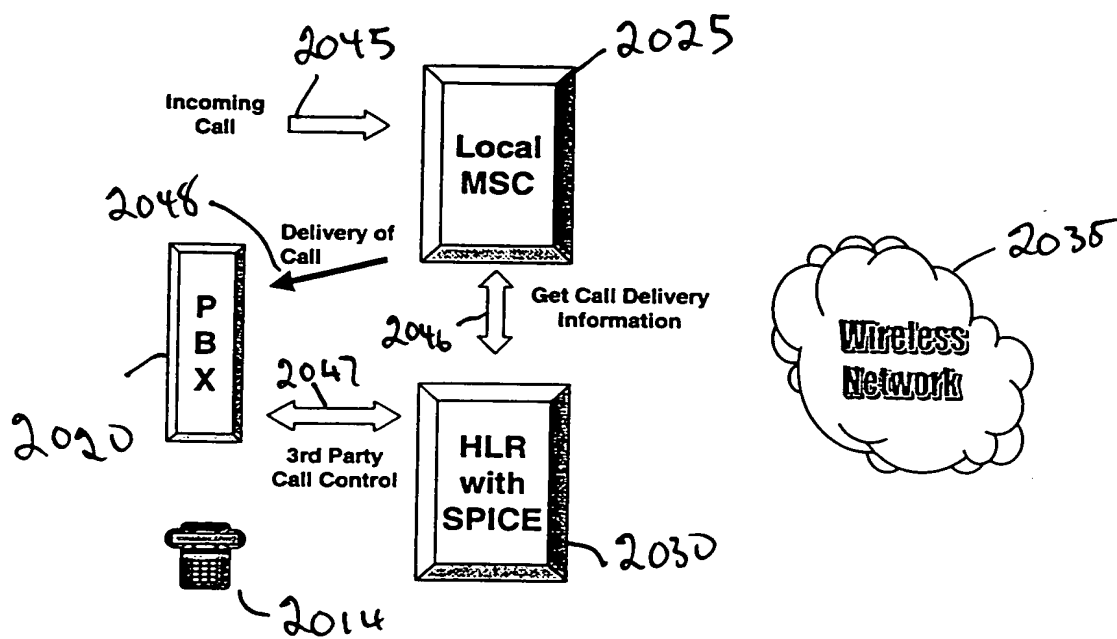


FIG 79

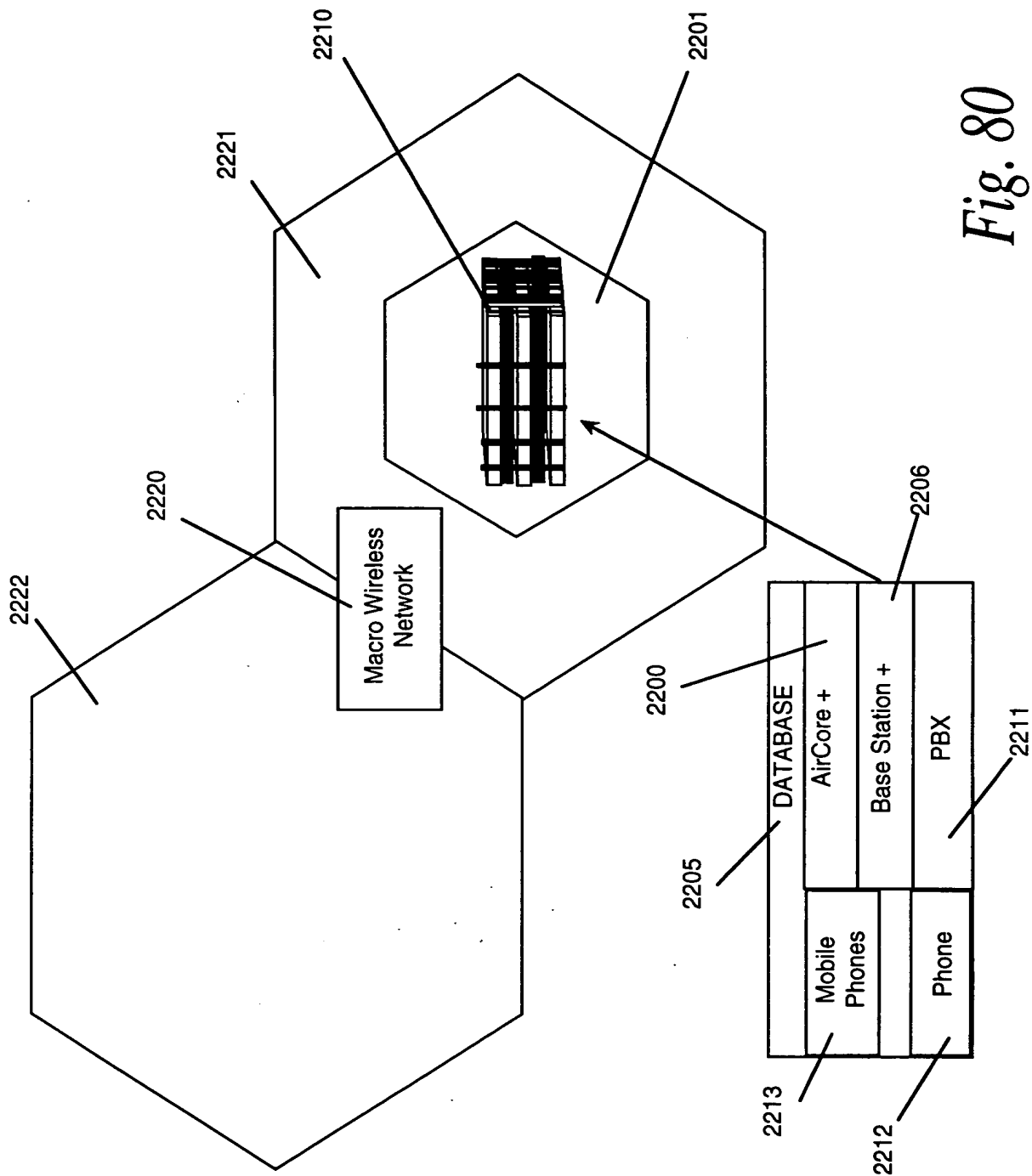


Fig. 80

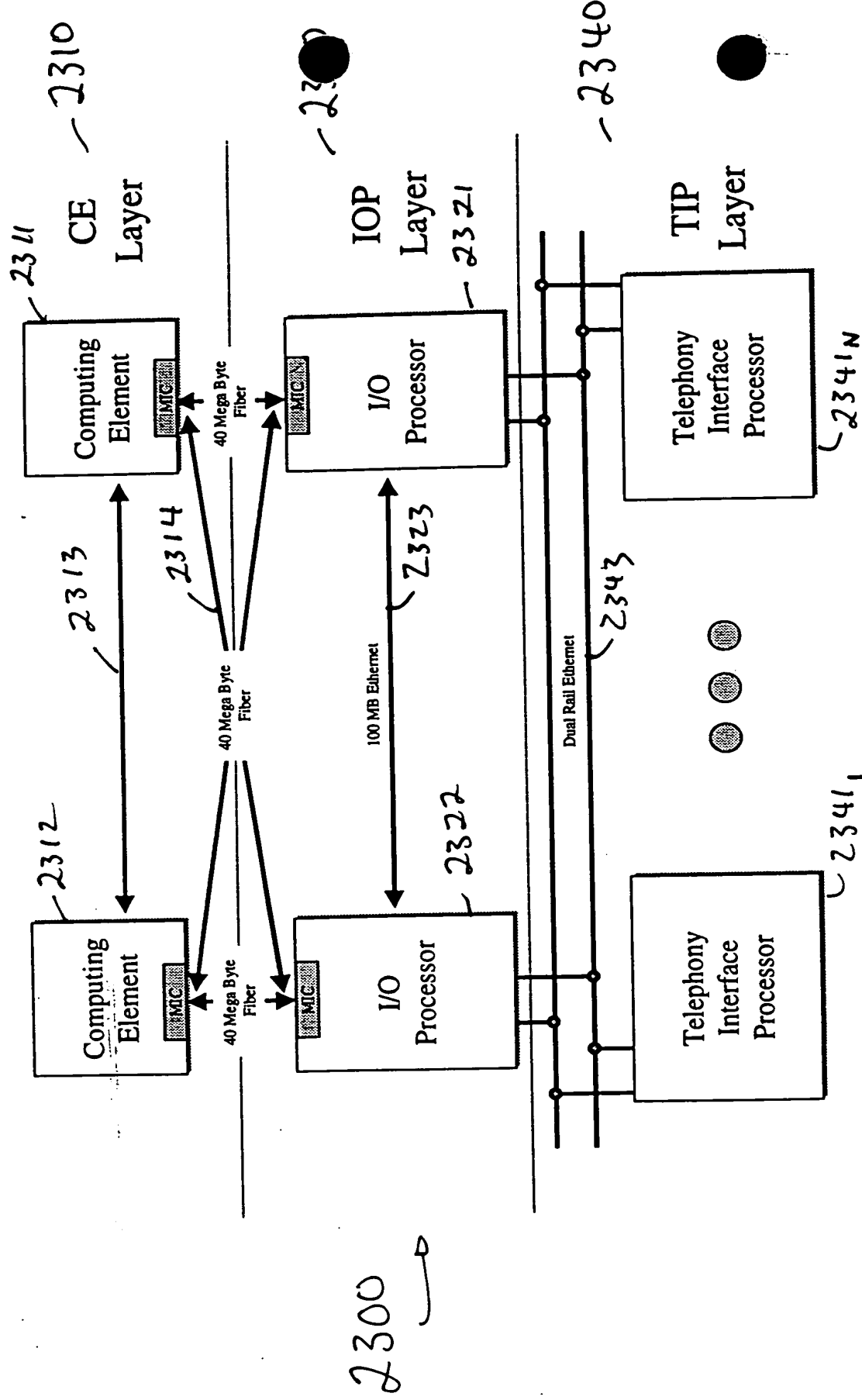


FIG 81

00245292.020599

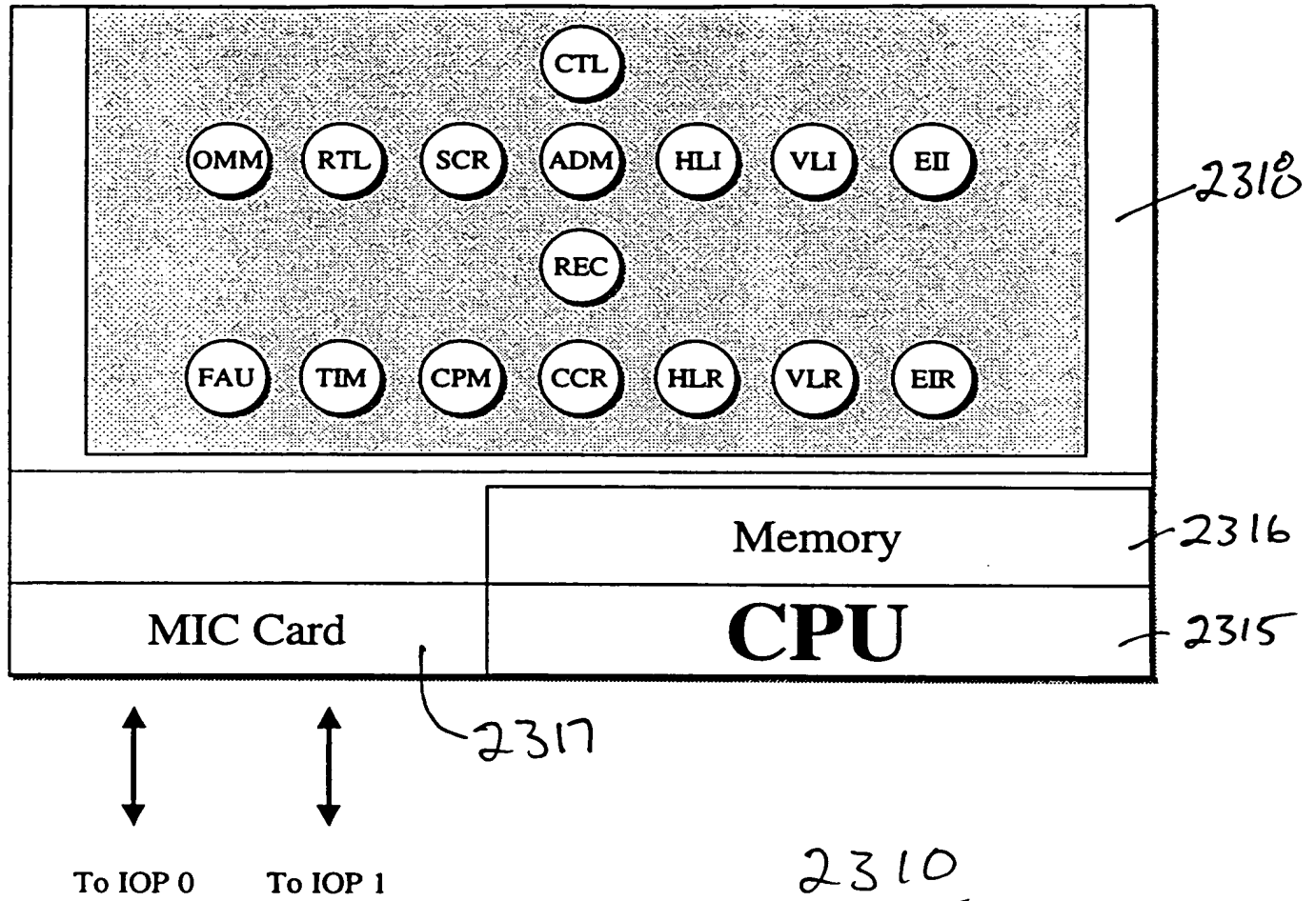
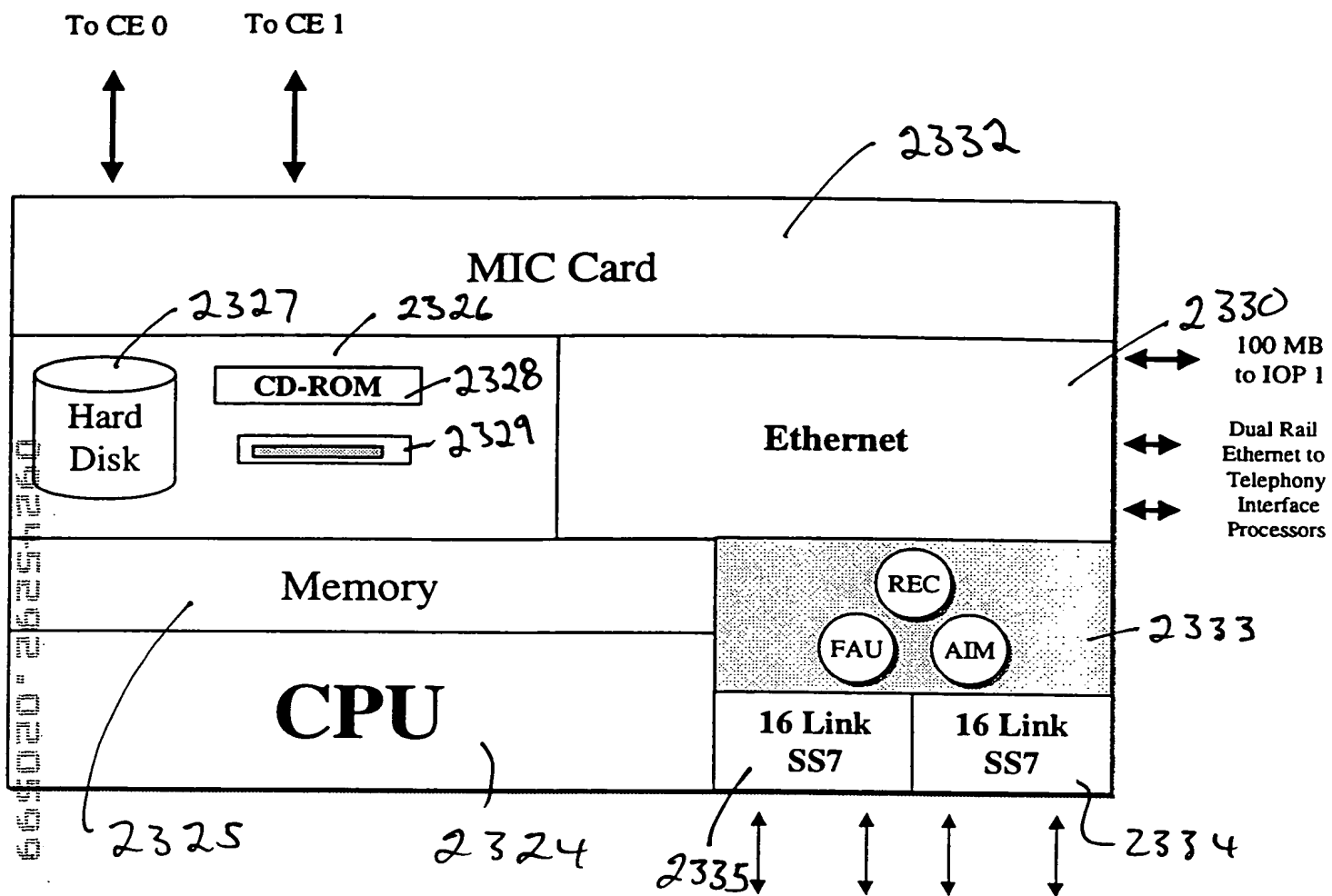


FIG. 82



2320

FIG 83

Dual Rail Ethernet from IOP Layer

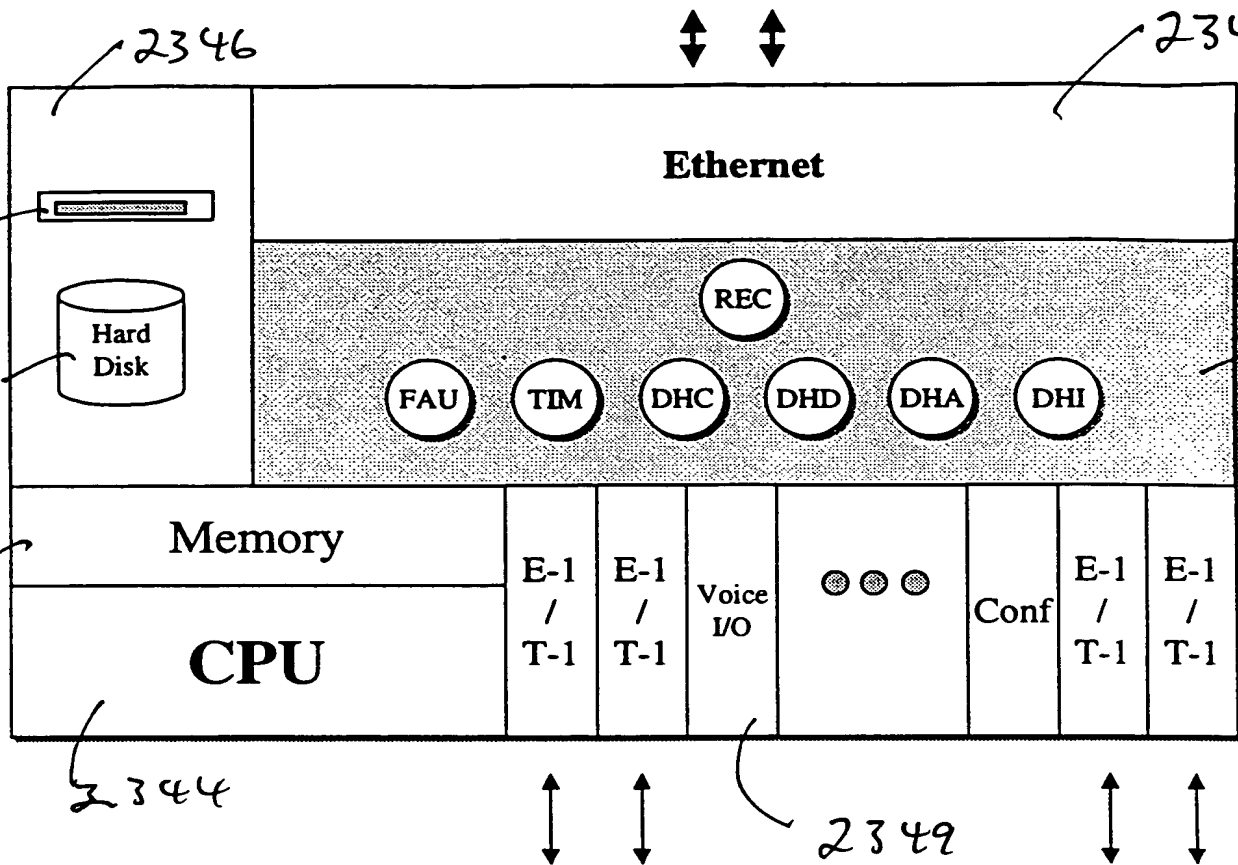


FIG 84

55020" 25254250

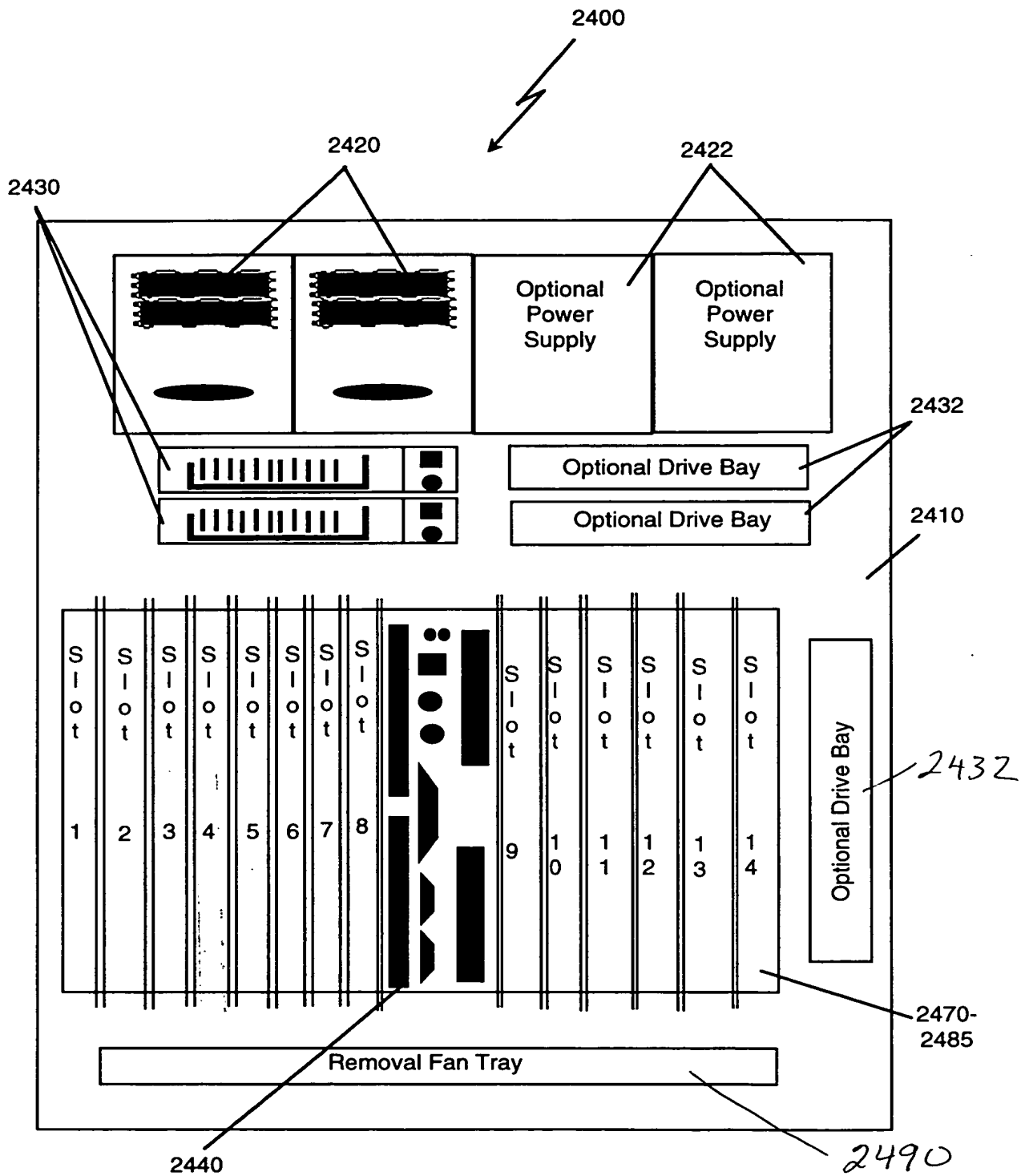


Fig. 85

2440

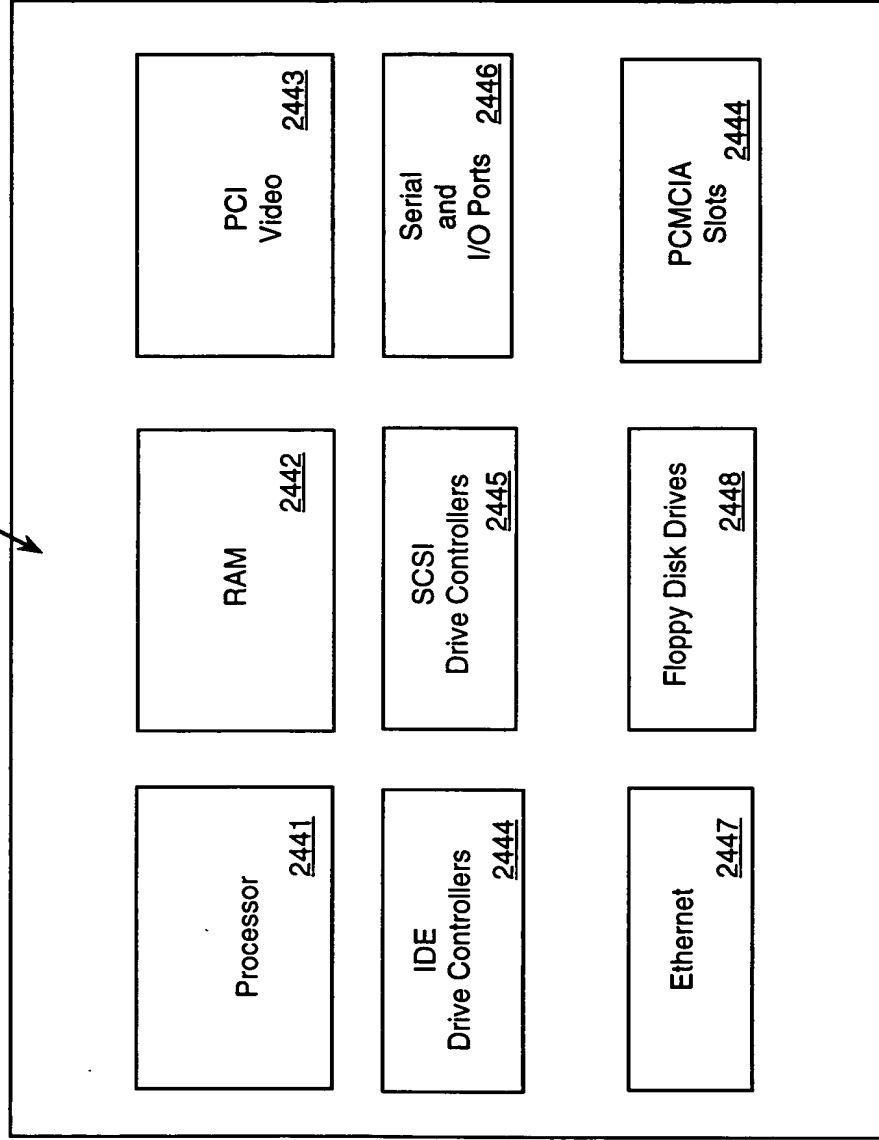


Fig. 86

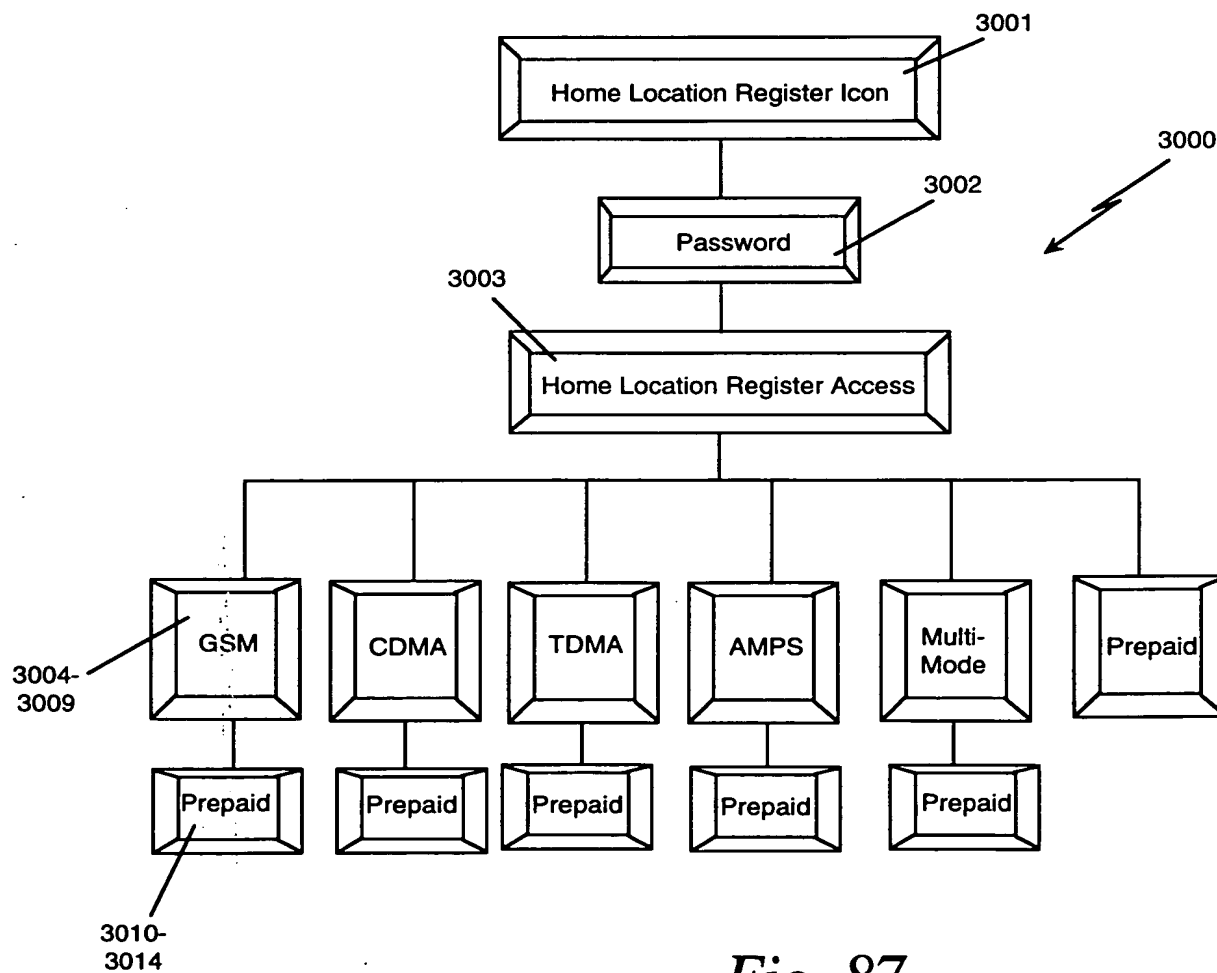


Fig. 87

665020 26254260
3004
3021

3022

HLI - Subscribers

CDMA Subscribers TDMA Subscribers MultiMode Subscribers
GSM Subscribers Prepaid Subscribers AMPS Subscribers

Number of Subscribers
Current: 33 Capacity: 1010

Subscribers List

9726805100	- 5100
9726805101	- Mobile 2
9726805102	- xxxxx
9726805103	- xx03
9726805104	- xx04
9726805105	- xx05
9726805106	- xxxxx06
9726805107	- 123455
9726805108	- xx08
9726805109	- xxx09
9726805110	- jshkjasgjjfg
9726805131	- Orig 2
9726805132	- term 3
9726805133	- term 4
9726805134	-
9726805135	- term 5
9726805136	- xxxxx36
9726805137	- xxxxx37
9726805138	- xxxxx38
9726805139	- xxxxx39
9726805140	- xxxxx40

Previous Next

OK Cancel Help

3023

3024

3027

3028

3029

3025

3026

Fig. 88

[illegible]

Fig. 89

655020" 26254260

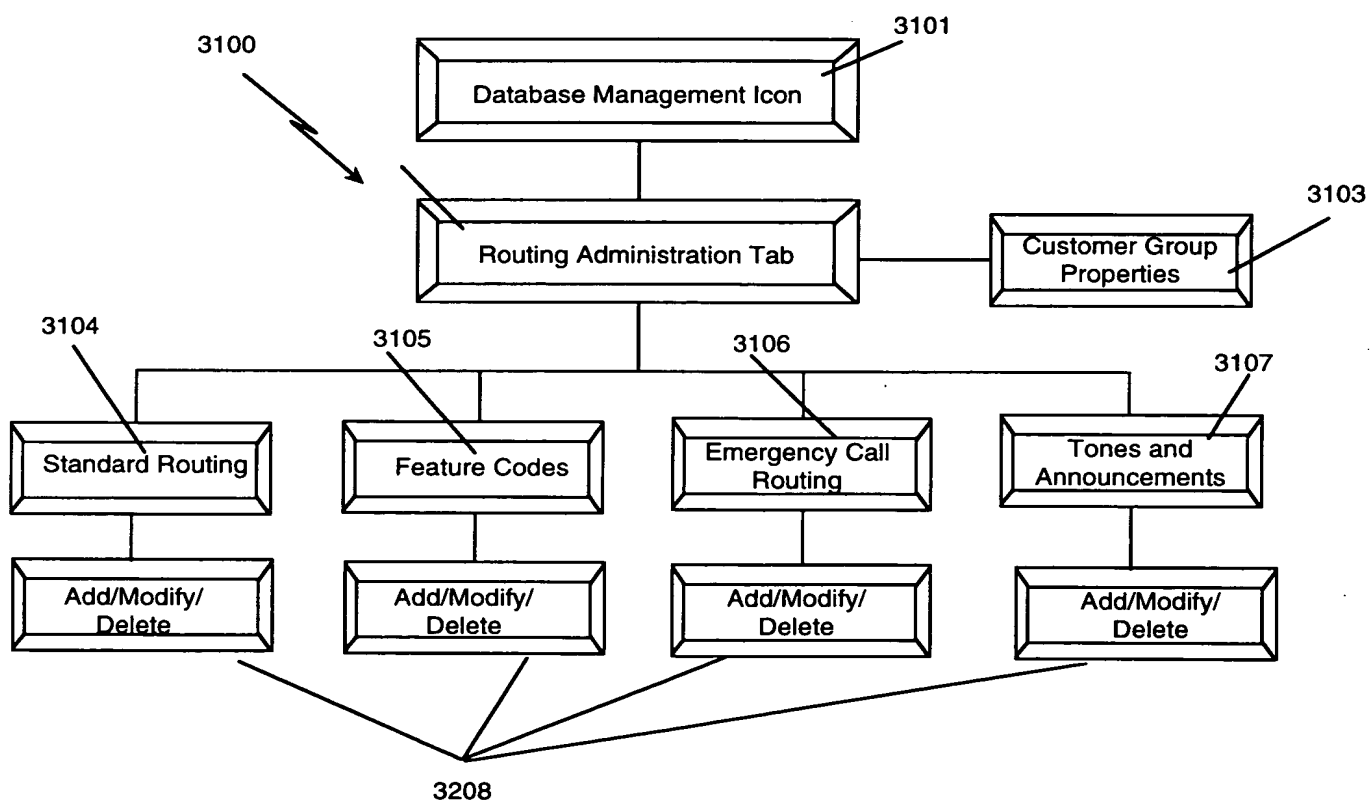


Fig. 90

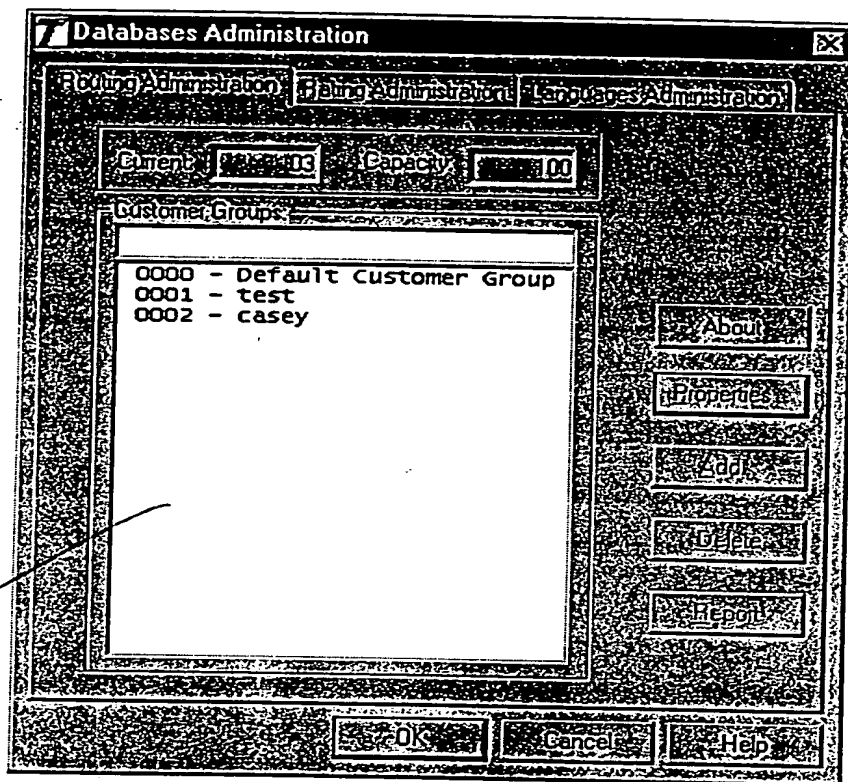


Fig. 91

00245292.020599
665020"26254260

Modifying Customer Group Entry

Customer Group: 0000

Description: Default Customer Group

Use default Customer Group Table

Features: ☒ Emergency: ☒ Treatment: ☒

NOTE: Above routes checked will use the Default Customer Group table instead of the local one.

Save Exit Help

3121

3120

Fig. 92

005020"26251260

0000 - Default Customer Group

Standard Routing | Relating Policy | Emergency/Def. Routing | Signs and Announcements

From	To	Min	Max	Type	Rte	HM	Stop	Priority
					W	Grp	Distr	Dist
972660	972660	10	13	mob	1	6	0	3
					2	5	0	3
918337	918340	10	10	dd	1	2	0	1
					2	4	0	3
918333	918336	6	6	dd	1	1	0	3
					2	2	0	1
51111	59999	5	5	dd	1	1	1	918463
					2	5	0	3
4108508932	4108508932	10	10	dd	1	7	1	3
					2	5	0	3
4104196006	4104196006	10	10	dd	1	7	0	3
					2	5	0	3

Number of Ranges: 90

Add Remove Edit Help

OK Cancel Help

3131

3104

Fig. 93

0924592-020594

Adding Range Entry *

Trunk: [] AC: [] Min: [10] Max: [10] Call Type: [dd]

First Route

Trunk Group: [\$] Stop: []

Prefix: []

Second Route

Trunk Group: [\$] Stop: []

Prefix: []

[Save] [Cancel] [Help]

3108

Fig. 94

665020" 26254260

0000 - Default Customer Group

Standard Routing Service Codes Emergency Call Routing Prices and Announcements

From	To	Min	Max	Rate	Rate	Rate	Rate	Rate	Rate
					1st	2nd	3rd	4th	5th
					Min	Sec	Min	Sec	Min
*900	*900	4	4	cfbd	1	1	0	\$	
					2	\$	0	\$	
*906	*906	4	14	cfba	1	1	0	\$	
					2	\$	0	\$	
*720	*720	4	4	cfud	1	1	0	\$	
					2	\$	0	\$	
*726	*726	4	14	cfua	1	1	0	\$	
					2	\$	0	\$	

Number of Ranges: 04

Add Delete Modify All Help

OK Cancel Help

3151

3105

Fig. 95

0245292 020599
665020 26254250

0000 - Default Customer Group

Standard Routing Records Codes Emergency Call Records Tones and Announcements

From	To	Min	Max	Type	Rel	Id	Stop	Prm
					1	2	3	
911	911	3	3	dd	1	1	3	4105559111
					2	\$	0	\$
310345987654	310345990000	12	12	dd	1	1	12	4108726004
					2	2	12	3016547123
310345123456	310345123460	12	12	dd	1	1	12	4108726000
					2	2	12	3014560987

Number of Ranges: 03

OK Cancel Help

3106

Fig. 96

0000 - Default Customer Group

Standard Routing | **Local Codes** | Emergency and Routing | Transit and Arrivals (General)

ID	Description	Local Route	Transit Route
00	none	- Beep Tone	Fast Busy Tone
01	invalid trunk group	- Fast Busy Tone	Fast Busy Tone
02	invalid access type	- Called NT not Available	Fast Busy Tone
03	invalid length of called digits	- Called Number Invalid	Fast Busy Tone
04	invalid digit	- Called Number Invalid	Fast Busy Tone
05	invalid feature code	- Called Number Invalid	Fast Busy Tone
06	vacant code	- Fast Busy Tone	Fast Busy Tone
07	invalid number	- Called Number Invalid	Fast Busy Tone
08	invalid call type from route table	- Fast Busy Tone	Fast Busy Tone
09	invalid number of strip digits	- Called Number Invalid	Fast Busy Tone
10	max forwardings exceeded	- Fast Busy Tone	Fast Busy Tone
11	no erip	- Called NT not Available	Fast Busy Tone
12	no more at chan	- Called NT not Available	Fast Busy Tone
13	DTM	- Called NT not in Service	Fast Busy Tone
14	ORIG_SUS	- NT Denied Origination	Fast Busy Tone
15	TERM_SUS	- Called NT not in Service	Fast Busy Tone
16	failed xlator	- Fast Busy Tone	Fast Busy Tone
17	inc failed xlator	- Fast Busy Tone	Fast Busy Tone
18	subscriber busy	- Busy Tone	Fast Busy Tone

Number of Ranges: 46

OK Modify Cancel Help

Fig. 97

09245292.020599

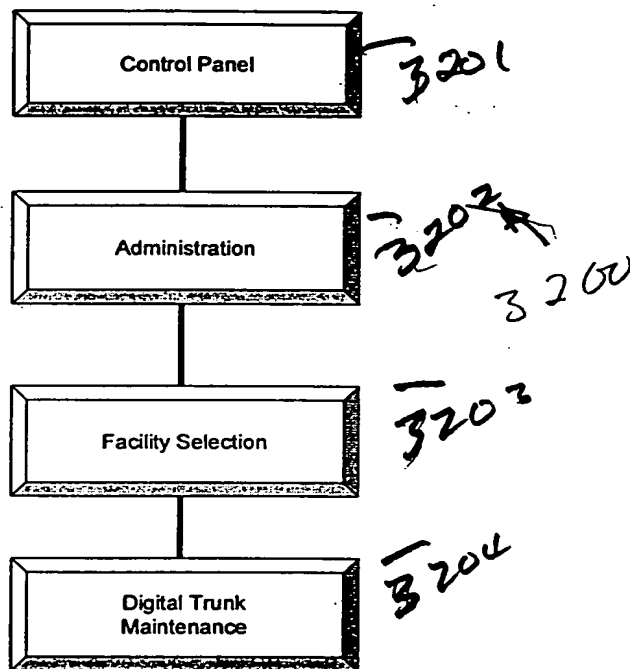


Fig. 98

09245292.020599

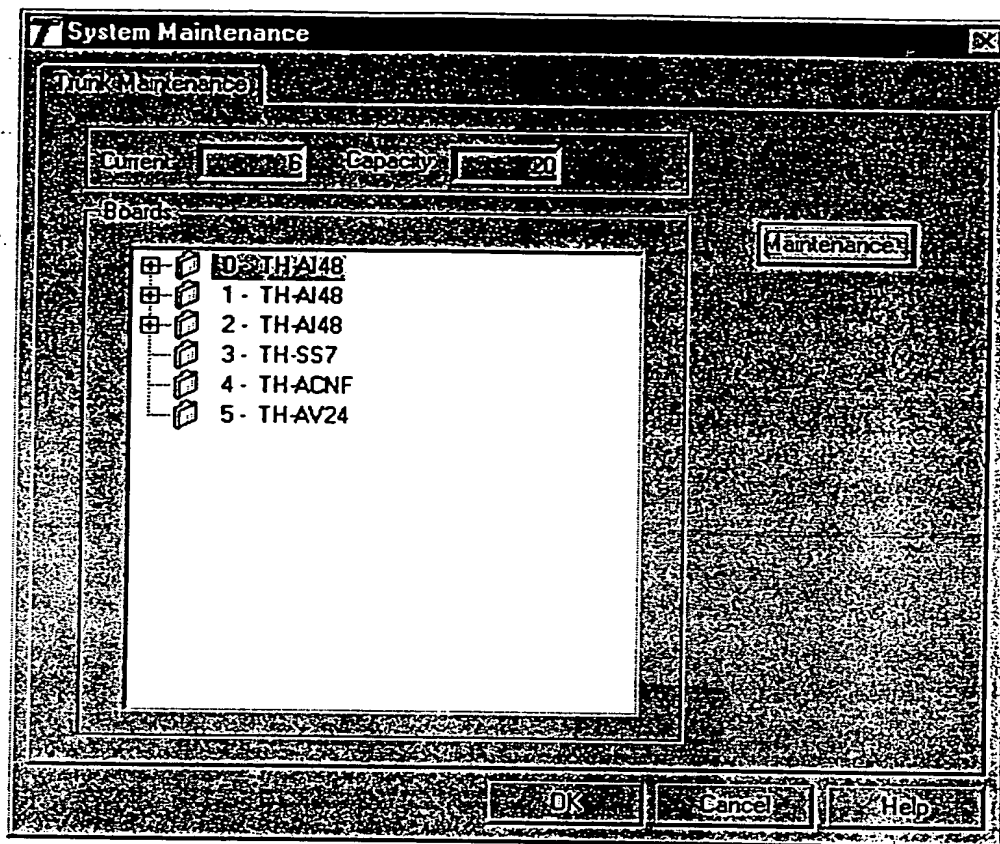


Fig. 99

09245292 020549

Trunk Maintenance - Board 0 Span 0

Channel	Trunk Group Name	Direction	INSV	FEDS	OFFL	Phone Number
0	SS7 CDMA	2w	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1	SS7 CDMA	2w	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	SS7 CDMA	2w	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	SS7 CDMA	2w	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	SS7 CDMA	2w	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	SS7 CDMA	2w	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	SS7 CDMA	2w	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7	SS7 CDMA	2w	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8	SS7 CDMA	2w	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9	SS7 CDMA	2w	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10	SS7 CDMA	2w	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11	SS7 CDMA	2w	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12	SS7 CDMA	2w	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13	SS7 CDMA	2w	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
14	SS7 CDMA	2w	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
15	SS7 CDMA	2w	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
16	SS7 CDMA	2w	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
17	SS7 CDMA	2w	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
18	SS7 CDMA	2w	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
19	SS7 CDMA	2w	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
20	SS7 CDMA	2w	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
21	SS7 CDMA	2w	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
22	SS7 CDMA	2w	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
23	DC Channel		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

☐ ALL ☐ ALL

SS7 OK
Close
Help
SS7 Home

3204

Fig. 100

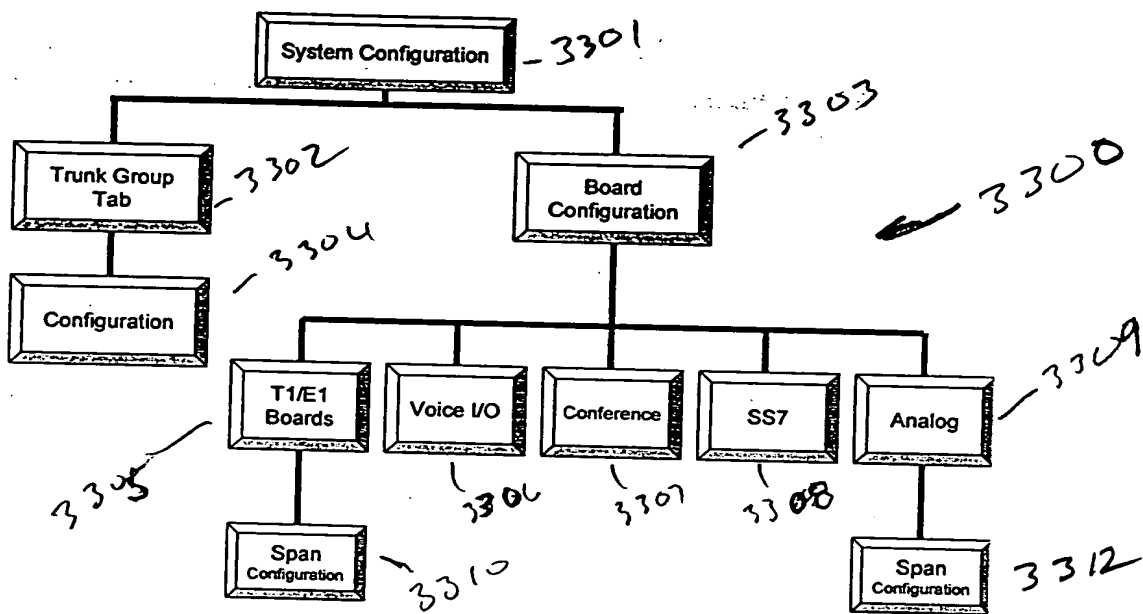


Fig. 101

09245292.020599

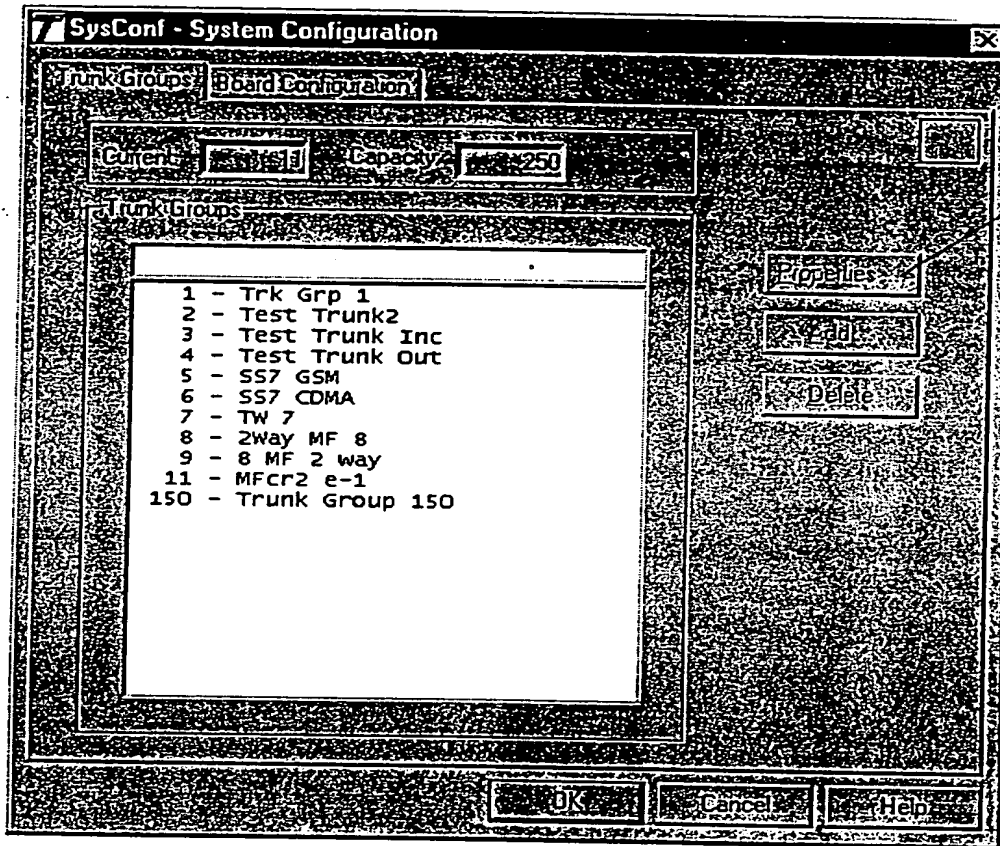


Fig. 102

09245292.020599

Trunk Groups - Add/Modify

Number: Active: ☒

Name:

Interface Type: Network: Customer Group:

Search Type: Direction: Signal Type:

Configured Spans:

Board - 2	Span - 0	Channels - 111111111111111111110000000000
Board - 2	Span - 1	Channels - 111111111111111111111000000000

Buttons:

33034

Fig. 103

09245292.020599

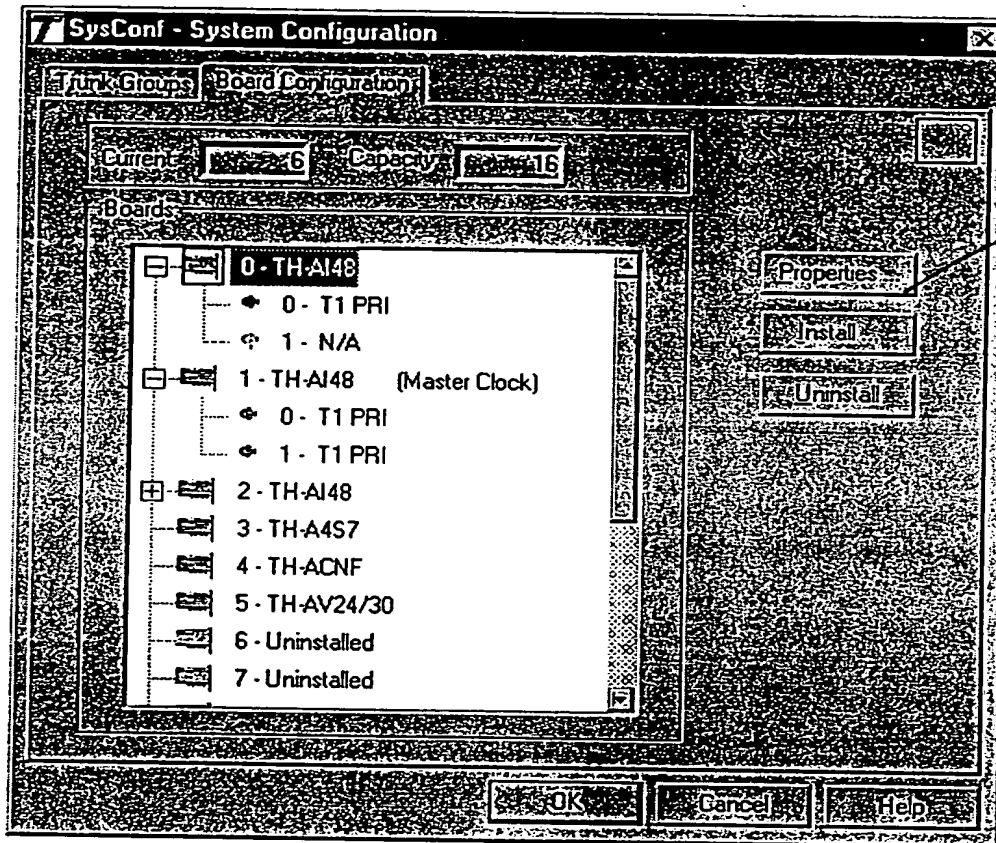


Fig. 104

09245292-020599
665020-26254260

Modifying 06-TH-DD96 *

Board Number: Type:

Clocking:

Master/Slave:

Buttons: Save, Close, Cancel, Help

For Information Only

Serial Number:

I/O Address:

Shared Address:

Porter Address:

Interrupt:

Window Size:

Slot Number:

Number Spans:

Number Channels:

Span A: ☒ Span B: ☒ Span C: ☒ Span D: ☒

Span E: ☐ Span F: ☐ Span G: ☐ Span H: ☐

3305
✓

Fig. 105

09245292, 020599

Modifying [Board 0 Span 0] - 0 - TH-AJ48

User/Network: USER [F] Network: CDMA [F] WINKSTART [F]
Access: PRIVATE [F] Access: ESF [F] WINKSTART [F]
Span Type: T1 PRI [F] Line Code: B6ZS [F] Core: 4ESS [F]
Signaling: SS7 CDMA [F] Line Length: 0-133 [F] Call: NORMAL VOICE [F]

Ch	Grp	Name	Dr	Inter
10	006	SS7 CDMA	2w	CDMA
11	006	SS7 CDMA	2w	CDMA
12	006	SS7 CDMA	2w	CDMA
13	006	SS7 CDMA	2w	CDMA
14	006	SS7 CDMA	2w	CDMA
15	006	SS7 CDMA	2w	CDMA
16	006	SS7 CDMA	2w	CDMA
17	006	SS7 CDMA	2w	CDMA
18	006	SS7 CDMA	2w	CDMA
19	006	SS7 CDMA	2w	CDMA
20	006	SS7 CDMA	2w	CDMA
21	006	SS7 CDMA	2w	CDMA
22	006	SS7 CDMA	2w	CDMA
23	254	CD CHANNEL		
24	251	N/A		
25	251	N/A		
26	251	N/A		
27	251	N/A		
28	251	N/A		
29	251	N/A		
30	251	N/A		
31	251	N/A		

Legend:
251 - Chan not Available
254 - Data Chan
252 - Trunk Chan
253 - Inward Trunk Grp

3310

Fig. 106

09245292-020599
665020-26254260

Modifying 05-TH-AV24/30

Board Number: Type:

Clocking:

Master/Slave:

For Information Only

Serial Number:

I/O Address:

Memory Address:

Pointer Address:

Interrupt:

Slot Number:

3306

Fig. 107

09245292.020599

3307

Modifying 04-TH-ACNF

Board Number: 04 Type: TH-ACNF

Clocking: EXTERNAL

Master/Slave: SLAVE

For Information Only

Serial Number:

I/O Address:

Memory Address:

Pointer Address:

Interrupt: 0

Slot Number: 0

Save

Exit

Cancel

Help

Fig. 108

09245292.020599

3308

Modifying 03-TH-A4S7

Board Number: Type:

Clocking:

Master/Slave:

For Information Only

Serial Number:

I/O Address:

Memory Address:

Pointer Address:

Interrupt:

Slot Number:

Fig. 109

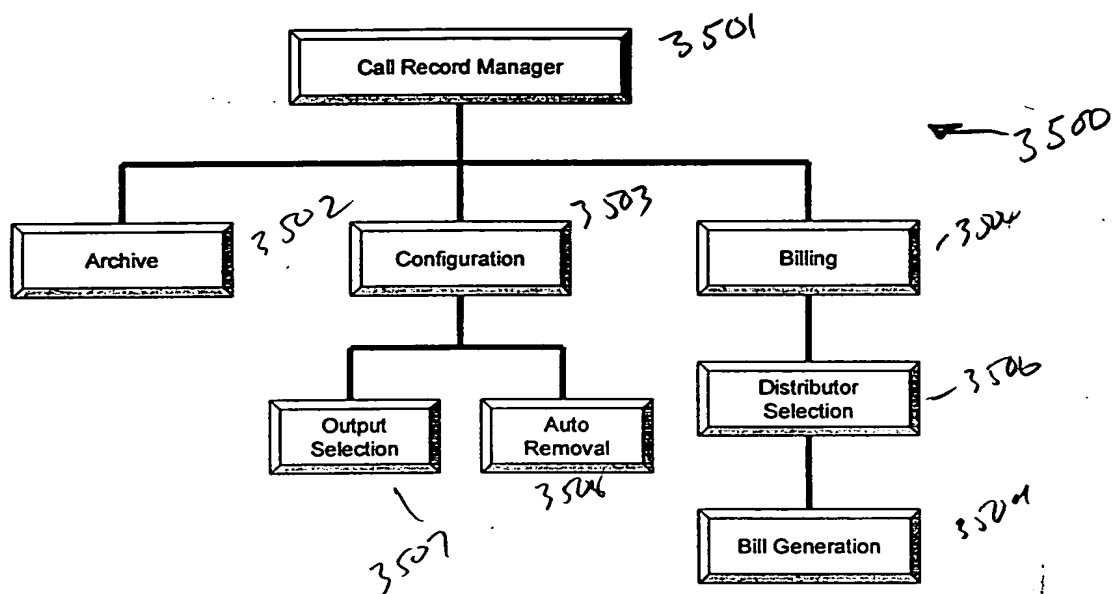


Fig. 110

09245292.020500

Call Record Manager - Archived Data

Arch. Database: Database Contents

CBProcstat	CBSubnum	CB8111num	CBcalled	CBConnect	CBstartDT	CBstarttm	CB
H	9726805130	9726805130	9726805100	9726805100	19981006	14:46:16	19
H	9726805100	9726805100	9726805100	9726805100	19981006	14:46:16	19
H	9726805130	9726805130	9726805100	9726805100	19981006	15:34:49	19
H	9726805100	9726805100	9726805100	9726805100	19981006	15:34:49	19
H	9726805130	9726805130	9726805100	9726805100	19981006	15:37:03	19
H	9726805100	9726805100	9726805100	9726805100	19981006	15:37:03	19

827915.DBF
827814.DBF
826813.DBF
826812.DBF
826811.DBF
826810.DBF
826809.DBF
826716.DBF
826715.DBF
826714.DBF
826713.DBF
826712.DBF
826711.DBF
826710.DBF
826709.DBF
826708.DBF
826617.DBF
826616.DBF
826615.DBF

Options Save All Print Help Pages Goto Page Record Range Records

3502

Fig. 111

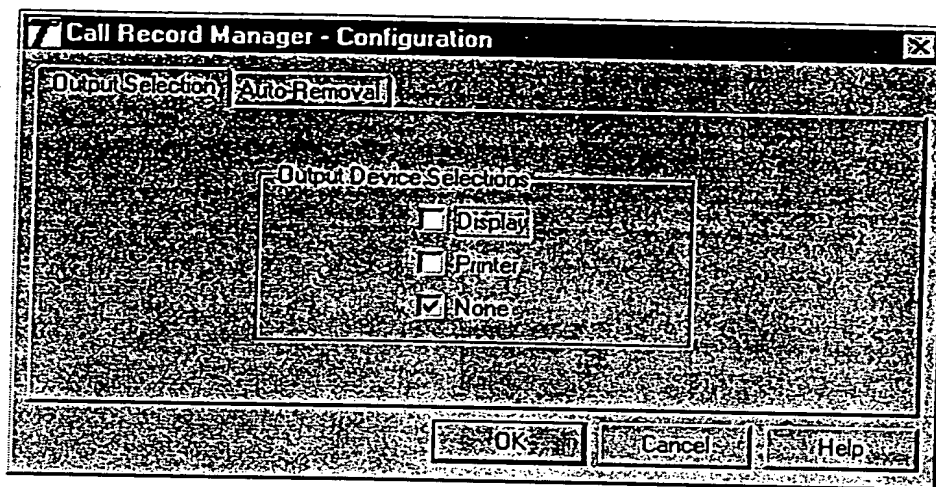
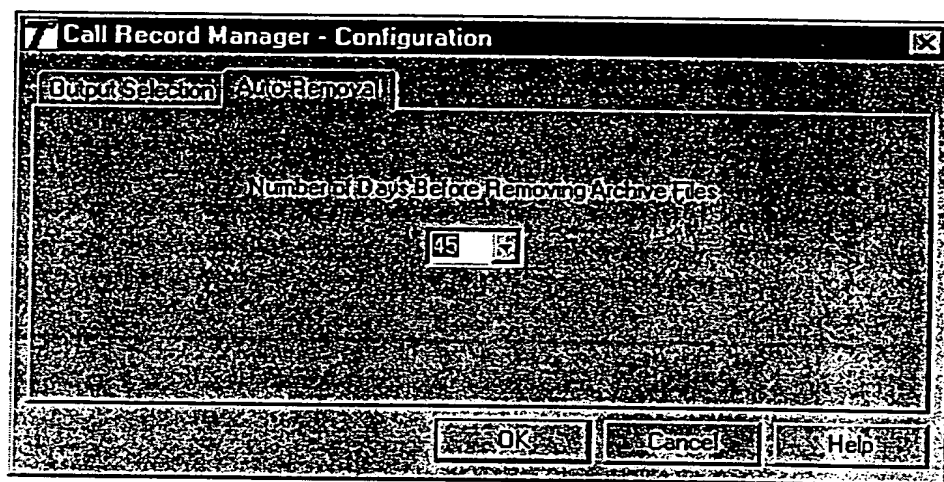


Fig. 112

09245292.020549
665020 26254260



3504

Fig. 113

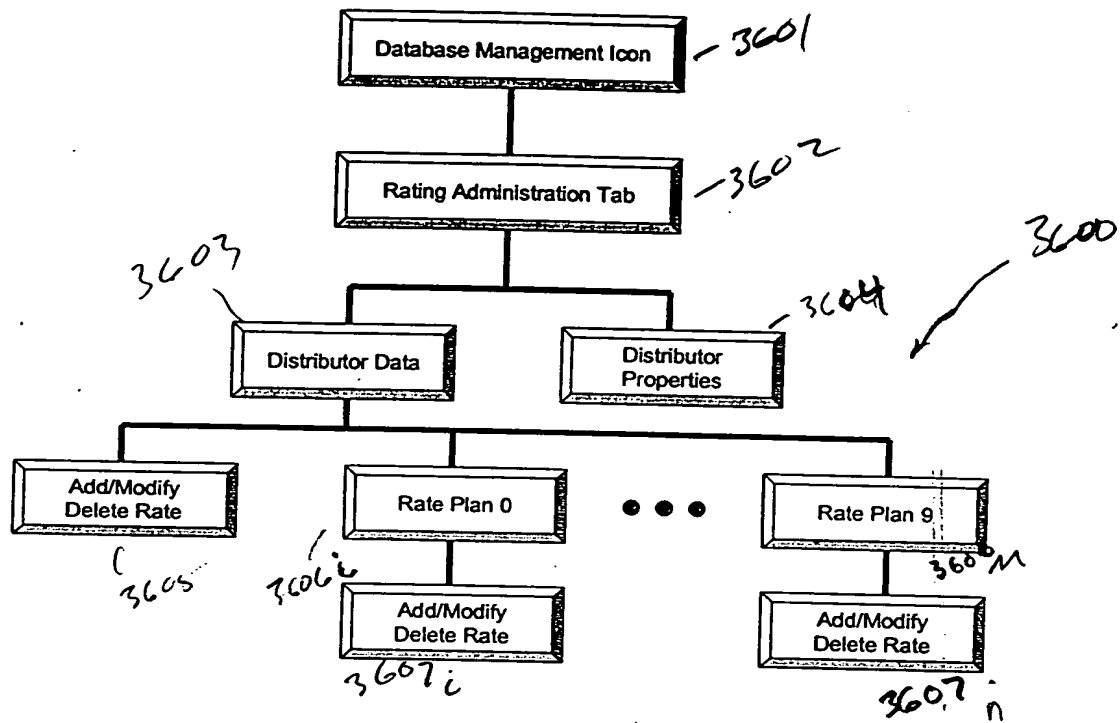
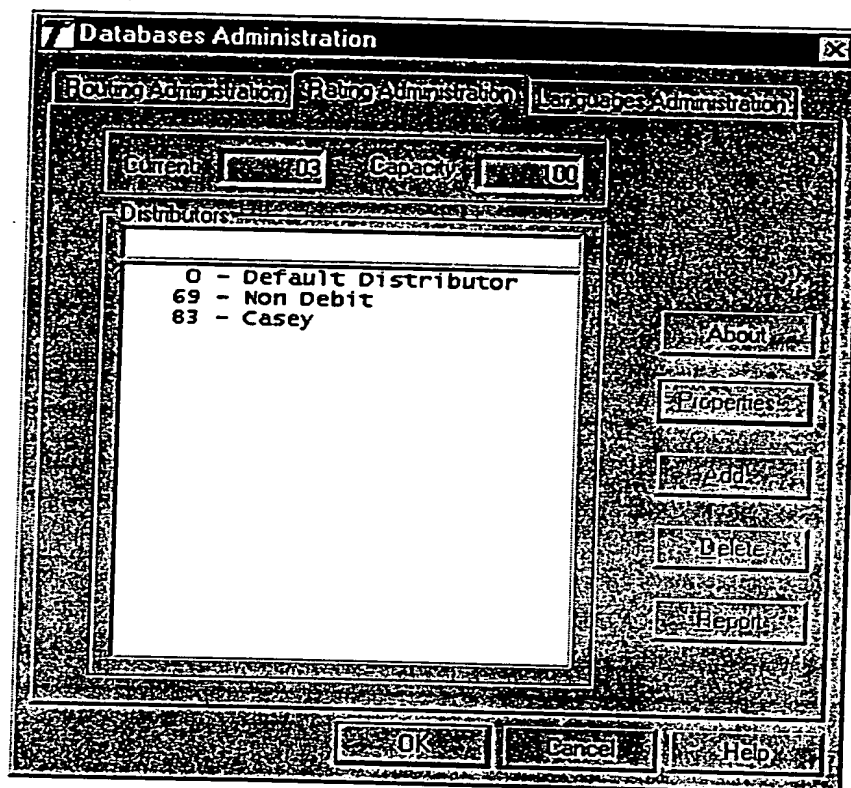


Fig. 114



3602

Fig. 115

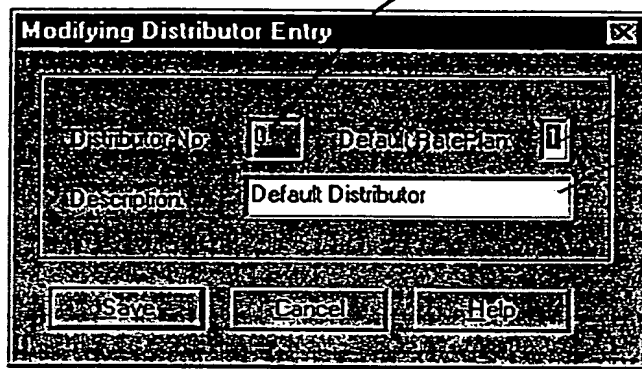


Fig. 116

09245292 020599

0 - Default Distributor - Modifying

Default File

Default Land Charges

County Code	City Code	No. Digits	City Name	First Minute	Additional Minutes
1	201		\$ NEW JERSEY U.S.A.	0.290	0.290
1	201555		\$ NEW JERSEY INFO	0.580	0.580
1	202		\$ WASHINGTON D.C.	0.290	0.290
1	202555		\$ WASHINGTON DC INFO	0.580	0.580
1	203		\$ CONNECTICUT U.S.A.	0.290	0.290
1	203555		\$ CONNECTICUT INFO	0.580	0.580
1	204		\$ Manitoba	0.000	0.000
1	204		\$ MANITOBA CANADA	0.297	0.290
1	204555		\$ MANITOBA CANADA INFO	0.580	0.580
1	205		\$ ALABAMA U.S.A.	0.290	0.290
1	205555		\$ ALABAMA INFO	0.580	0.580
1	206		\$ WASHINGTON U.S.A.	0.290	0.290
1	206555		\$ WASHINGTON INFO	0.580	0.580
1	207		\$ MAINE U.S.A.	0.290	0.290
1	207555		\$ MAINE INFO	0.580	0.580
1	208		\$ IDAHO U.S.A.	0.290	0.290
1	208555		\$ IDAHO INFO	0.580	0.580
1	209		\$ CALIFORNIA U.S.A.	0.290	0.290
1	209555		\$ CALIFORNIA INFO	0.580	0.580

Number of Entries: 1002

3603

Fig. 117

09245292.020599

Modifying Rate Entry

Description:

Time Schedule

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Monday	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Tuesday	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Wednesday	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Thursday	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Friday	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Saturday	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Sunday	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

(b) Peak:
(c) Off Peak:
(d) Discount:

Land Charges

Country Code	City Code	No. Dials	City Name	First Minute	Additional Minutes
1	410	11	Maryland	0.160	0.160

Number of Entries: 01

3607

Fig. 118

09245292, 020599

Adding Country Entry.

Country Number	City Code	Dialing Digit	City Name	First Minute	Additional Minutes
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

-3640

Fig. 119

09245292 020599

365

Modifying Prepaid Entry

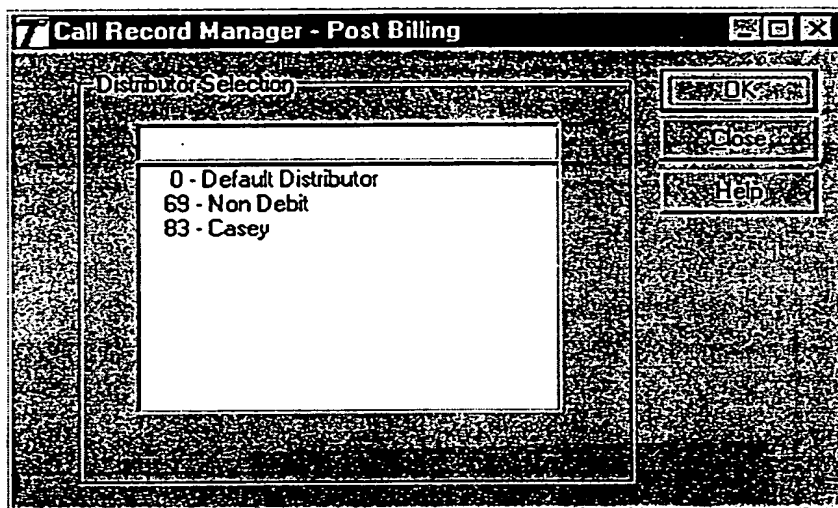
BALANCE Credit Line: 0.00 [Add] Current Amount: 0.00 [Zero] Current Balance: 0.00	CREDIT CARD Payment Method: Cash Type: [] Credit Card No: [] Expiration Date: [MM] [YY] MM YY
RATE INFORMATION Distributor: 0 - Default Distributor Rate Plan: 0 - Default Rate for Dist. 0 Billing Method: 60 - 60	OTHER Dial Prompt: Tone Call Back No: [] Billing No: [] Follow Mo: [] USA: []

[Print] [Save] [Close] [Help]

A
3650

Fig. 120

09245292 020599



3506

Fig. 121

09245292-020599

Call Detail Record - Billing Information

Distributor Name:

Distribution Number: MM/DD/YYYY Start: MM/DD/YYYY End:

Unanswered Calls:

Destination Dir:

Message:

Recalculate: ☐ Yes ☐ No ☐ Yes ☐ No

Print: ☐ Yes ☐ No

Output: ☐ Bill ☐ Summary ☐ Report

Subscribers Selected:

COPY ALL

1234567

4108634798

4108726000

9184632994

9726805101

9726805130

9726805131

9726805131

9726805132

9726805135

9726805136

DELETE ALL

3509

Fig. 122

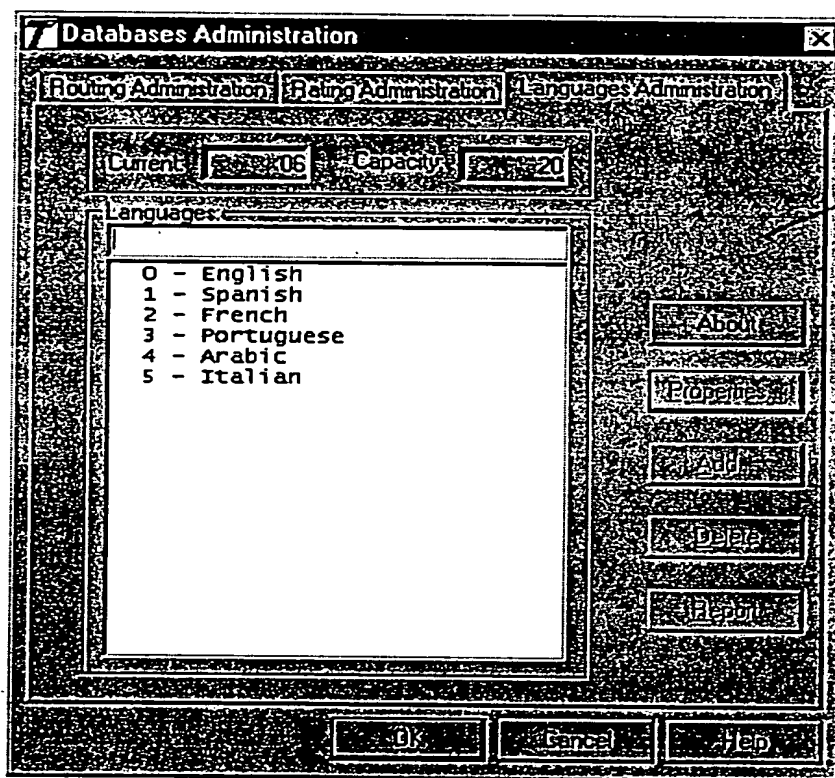


Fig. 123